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Prerequisite of Using the Assessment Framework

This Assessment Framework (AF) provides theory and structured conceptual map of how the learning outcomes of a programme of study should be assessed at the primary school level. It contains guidelines and principles of assessment as well as several practical examples to illustrate the application in the classroom.

The framework can be considered a blueprint of an assessment programme at the primary school level. As with all assessment frameworks, its enactment in schools and classrooms will require professional judgement guided by the following prerequisites.

Teacher and Head Teacher Development – Where needed, teachers and head teachers would require short courses on a. formative assessment, b. the progressive notions of cyclic purposeful assessment and their need in Pakistani context, and, c. the importance and conduct of formative feedback, which facilitates learners' progression from lower-order thinking skills to higher-order thinking abilities. They may also need to learn how to read the curriculum maps and tables of specification to plan for authentic and valid assessment.

School Based Assessment Planning – School based yearly assessment programmes and monthly assessment schemes must be developed taking into account the principles, guidelines and examples from the AF. The framework contains schedules of assessment and assessment weightage. These need to be considered for school level planning.

School Based Mentoring – There is a need to develop mentors who can work with teachers and head teachers in the selected schools to help them translate the AF into various schools' realities. Pakistan has schools of varying systems – from public to private to madrasah; varying contexts - from rural to urban to semi-urban; varying socio-economic background – from schools for high-income group to low income groups to middle-income groups. Therefore, mentors will be required for at least the first year of the implementation of the AF.

CHAPTER ONE

INTRODUCTION

Chapter One

Introduction

This chapter introduces the National Assessment Framework (NAF), developed as an integral component of the National Curriculum Framework (NCF). By drawing on essential information from different national policy documents and from the relevant international literature, the chapter discusses the philosophical positioning of the assessment framework. It presents a brief overview of the quality of education and the need for developing a uniform national assessment framework. It further outlines the basic structure and the principles of various forms of assessment for General Knowledge Grades I to III.

Quality of Education

The basic purpose of any initiative taken at policy and practice level is improving the quality of education imparted by schools to young learners. Quality as a complex and contested notion does not have a single definition; the understanding and the provisions of inputs into quality in education vary from society to society and context to context. National Curriculum Framework (NCF) (Government of Pakistan, 2018b) refers to quality of education as a set of elements containing input, process and output of the education system. Quality also entails all the desirable characteristics of learners, processes, learning materials, content, governance and management, and learning outcomes. Elaborating on the definition, NCF (2018b, p.1) further argues, "Quality education satisfies basic learning needs and enriches the lives of learners and their overall experience of living." Policy document on Minimum Standards for Quality of Education in Pakistan (Government of Pakistan, 2018a) refers to the definition used in Education for All (EFA) Global Monitoring Report 2005, which draws on two principles. The first principle identifies learners' cognitive development as the major explicit objective of all education systems, and the second emphasizes education's role in nurturing creative and emotional development for promoting the values and attitudes of responsible citizenship. The document on Minimum Standards for Quality of Education (2018) explains the concept of quality in terms of education that is "meaningful, relevant and responsive to the needs of individuals and the society as a whole." (Government of Pakistan, 2018c, p.5). Similarly, the National Educational Policy (NEP), 2009 recognizes six pillars of quality, which include curriculum, textbooks, assessment, teachers, learning environment and relevance of education to practical life.

The Need for an Assessment Framework

As noted in the definition above, assessment is an integral part of the quality of education offered to the students. Assessment is an essential part of processes at input level, as well as serves as a tool to measure outputs and outcomes of processes and practices. As reflected in

these definitions, assessment, as an important practice in education, is to play a central role in translating the key ideas in the quality definition into practice.

Assessment, as defined by Erwin (1991 cited in NCF (Government of Pakistan, 2018b) is:

...the process of defining, selecting, designing, collecting, analysing, interpreting, and using information to continuously increase students' learning and development. It is the systematic collection, review and use of information about educational programmes to improve student learning. Assessment focuses on what students know, what they are able to do, and what values they have when they receive their education... Assessment is concerned with the collective impact of a series of lessons on student learning. (p.69)

The above definition of assessment implies that on the one hand assessment provides evidence of students' learning of academic content (academic domain) and development in other domains (psychosocial/psycho-emotional, language and affective domains). On the other hand, it supports the collection of relevant information for various purposes such as informing teaching and learning, determining students' progress on an ongoing basis, measuring achievement, and providing information needed for monitoring individual and institutional accountability. These all lead to informed decision-making about improving students' learning outcomes and enhance the overall quality of education focusing on efforts at classroom, school and system levels.

Despite the paramount importance of the student assessment system and the promises made in the successive education policies, Pakistan has not been able to put in place the kinds of policies, structures, mechanisms, processes, practices, and tools that contribute to creating a strong and effective student assessment system in the country. In Pakistan, programmes and efforts of projects (e.g. setting up NEAS, PEAC, conducting standardized tests/exams at Grade 5 & 8) made to improve student assessment have proved to be weak. There is a need for a comprehensive and coherent national policy framework to guide and support education systems, schools and teachers in bringing about improvement in student assessment on a sustainable basis. As pointed out in the policy document on Minimum Standards for Quality Education in Pakistan (Government of Pakistan, 2018a, p.2), "the absence of clearly articulated and agreed upon minimum national standards for quality education leaves the education system without a basic framework for setting targets and for evaluating attempts at improvements in education quality."

NCF (Government of Pakistan, 2018b), considering assessment as an integral component of the teaching process, emphasises on developing different assessment mechanisms to assess students' competence as per curricula through different forms of assessments than the use of conventional methods considering them sporadic and unreliable. Therefore, it calls for a more valid and reliable system that not only addresses the deficiencies in the current assessment and

penalize unfair means in large-scale public assessment, but ensures standardized execution of formative, summative, classroom based assessment, school based assessment and large scale assessment across the board in the country.

Thus, a robust and coherent national assessment system will help in the realization of the aims, goals and purposes of education articulated in NCF and other policy documents.

The Purpose of Developing Assessment Framework

Considering the fact that the use of older and rigid forms of assessment is a hindrance to quality teaching and learning and may impair the effectiveness of NCP, a different assessment framework is developed to provide the basis for reliable, valid and useable for all types of assessment, grades and subjects. The National Assessment of Educational Progress (NAEP) also confirms that creating a nationwide assessment framework will provide all the actors with a blueprint for the content and design of different types of assessments. The framework may further provide a starting point for constructive discourse about high-quality educational standards and assessments.

The purpose of developing an assessment framework is to ensure the standardized implementation of different forms of assessment that includes formative and summative school-based classroom assessments and large-scale assessment. It encompasses a paradigm shift from the traditional ways of assessing to a competency-based assessment considering the implication for its utility, reliability and practicality in different contexts. Underpinning different purposes of assessments, the framework serves as guidance for all the stakeholders in the learning system in developing, implementing and using assessments methodically to instate stronger teaching and learning practices.

The purpose of developing General knowledge Assessment Framework

The General Knowledge Curriculum focuses on departing from the traditional method of evaluating students' learning; rather it emphasises on using alternative assessments in order to determine how well students are learning and progressing. The alternative methods of assessments not only gauge a student's progress but also inform about the process of teaching and learning.

Aligned with the General knowledge curriculum, the General knowledge Assessment Framework is developed to provide different forms of formative and summative assessment along with the purpose with which each assessment is being introduced. It provides a variety of assessment tools to assess all four language skills.

It is constructed in the form of tasks that involve taking into account the developmental levels of students. It entails competency-wise weightage of all the grade levels for all the subjects. It will also present a table of the specification along with the structure of formative

and summative assessment, schedule of assessment, and guidelines for providing feedback for improving performance.

The framework also provides samples/ examples of selected and constructed items for summative and formative tests including marking guidelines, examples of authentic tasks, and rubrics as well as examples of effective feedback

Defining Assessment

The above discussion signifies that assessment needs to be purposeful. It is a broad process of collecting, synthesising and interpreting information to support student learning and to report on the amount learned. The supporting function is known as formative assessment and the reporting function is known as summative assessment (as shown below).

Assessment Type	Formative	Summative
	Looking back and preparing forward. Feeding back and feeding forward.	Feeding back. Providing a snapshot.
Assessment Objectives & Outcomes	Assessment as and for Learning	Assessment of Learning
	Focusing on constructive feedback from the teacher and on developing students' capacity to self-assess and to reflect on their learning to improve their future learning and understanding.	Making judgments about what the student has learned in relation to the teaching and learning goals; should be comprehensive and reflect the learning growth over the time period being assessed.

Source: (Chappuis & Stiggins, 2017)

The Cyclic Assessment

Purposeful assessment is cyclic. There are many versions of cyclic assessment. The one presented here is adapted from Margaret Heritage's model.



Source: Adapted from Greenstein, 2016

The cyclic model illustrates how purposeful assessment systematically supports student learning by tracking and enhancing student growth towards standards following the seven steps. The seven step model will be unpacked in the subsequent sections of the framework.

CHAPTER TWO

PRE-ASSESSMENT

Chapter Two

Pre-Assessment

Curriculum Mapping: A Pre-Assessment Strategy

An important consideration in assessment is how well students have mastered the SLOs, what knowledge, skills and attitudes they have acquired in a particular learning area during an academic year and where they are expected to be at the end of teaching and learning (Greenstein, 2016). The first stage in planning for assessment is, therefore, to develop curriculum maps illustrating the alignment between the SLOs for English language acquisition for grades 1 to 5 with the various domains of knowledge, skills and attitudes using pre-specified criteria based on Bloom's taxonomy (see Appendices A, B & C).

The detailed curriculum maps have been developed for English grades 1 to 3 and are attached as appendices from Appendices D to F. Curriculum mapping is based on Bloom's Cognitive, Affective and Psychomotor Domains. The following levels were used in each of the three domains:

The Cognitive Domain comprises six (06) cognitive dimensions, namely remember, understand, apply, analyse, evaluate, create and four (04) knowledge dimensions namely factual, conceptual, procedural, and metacognitive. The Affective Domain comprises five (05) dimensions comprising receiving, responding, valuing, organising, and characterising. The Psychomotor Domain comprises seven (07) dimensions namely, perception, set, guided response, mechanism, complex overt response, adaptation, and origination.

The description, key words and sample assessment in each dimension are given in Appendices A, B and C. The sources from where the description and examples have been taken are also given underneath the tables in the different appendices.

Curriculum maps were used for the following four purposes:

- Develop topic wise or competency wise weightage
- Develop tables of specifications based on the weightage

- Group SLOs in terms of knowledge, skills, and attitudes they are trying to develop
- Develop assessment codes

The following section presents Tables of Specifications followed by a List of Assessment Codes, SLOs and Assessment Strategies.

Tables of Specifications

Tables of specifications were prepared for each grade levels to align student-learning outcomes with key competencies or instruction units and calculate the number of assessed items.

Grade I

Total Percentage Share of the Three Domains for GK

Domains	Share in Percentage
Cognitive	89%
Affective	10
Psychomotor	1%

Weightage of Each Domain

No	Domain	Cognitive	Affective	Psychomotor	Weightage
1	Discovering Self and	15%	5%	-	20%
	Immediate Environment				
2	Ethics and Values	7%	4%	-	11%
3	Responsible Citizenship	7%			7%
4	Patriotism and Knowledge	4%	-	1%	5%
	of the Country				
5	Goods and Services	5%	-	-	5%
6	Life Sciences	37%	1%	-	38%
7	Physical Sciences	5%	-	-	5%
8	Earth and Space Science	9%	-	-	9%
	Total (100%)	89%	10%	1%	100%



Table of Specification

Competency Learning Domains	Discovering Self and Immediate Environment 20%	Ethics and Values 11%	Respo nsible Citizen ship 7%	Patriotism and Knowledge of the Country 5%	Goods and Services 5%	Life Sciences 38%	Physical Sciences 5%	Earth and Space Science 9%	Tot al 100
Remember 43%	9	2	1	2	2	20	2	5	43
Understand 24%	5	2	1	1	1	10	2	2	24
Apply 12%	2	1	1	1	1	4	1	1	12
Analyze 8%	2	1	1	-	-	3	-	1	8
Evaluate 2%	1	-	-	-	-	1	-	-	2
Create 0%	-	-	-	-	-	-	-	-	-
			Affe	ctive Domain					
Receiving 2%	1	1	-	-	-	-	-	-	2
Valuing 7%	-	4	3	-	-	-	-	-	7
Organizing 1%	-	-	-	1	-	-	-	-	1
			Psycho	motor Domai	in				
Mechanism 1%	-	-	-	-	1	-	-	-	1
Total 100%	20%	11%	7%	5%	5%	38%	5%	9%	100

Grade II

Total Percentage Share of the Three Domains for GK

Domains	Share in Percentage
Cognitive	90%
Affective	9%
Psychomotor	1%

Weightage of Each Domain

No	Domain	Cognitive	Affective	Psychomotor	Weightage
1	Discovering Self and	6%			6%
	Immediate Environment				
2	Ethics and Values	16%	6%		22%
3	Responsible Citizenship	12%	3%		15%
4	Patriotism and Knowledge	11%		1%	12%
	of the Country				
5	Goods and Services	7%			7%
6	Life Sciences	15%			15%
7	Physical Sciences	14%			14%
8	Earth and Space Science	9%			9%
	Total (100%)	90%	9%	1%	100%

Table of Specification

Competency Learning Domains	Discovering Self and Immediate Environment 6%	Ethics and Values 22%	Responsi ble Citizensh ip 15%	Patriotism and Knowledge of the Country 12%	Goods and Services 7%	Life Scien ces 15 %	Physica I Science s 14%	Earth and Space Science 9%	To tal
			Cogniti	ve Domain					
Remember 51%	3	10	7	6	4	8	8	5	51
Understand 23%	2	4	2	4	2	3	3	3	23
Apply 10%	1	1	1	1		3	2	1	10
Analyze 5%		1	1		1	1	1		5
Evaluate 1%		1							1
Create %									
			Affecti	ve Domain					
Receiving 5%		3	2						5
Valuing 2%		1	1						2
Characterizing 2%		1	1						2
			Psyc	homotor					
Perception (1%)				1					1
Total (100%)	6%	22%	15%	12%	7%	15%	14%	9%	100%

Grade III

Total Percentage Share of the Three Domains for GK

Domains	Share in Percentage
Cognitive	97%
Affective	3%
Psychomotor	0%

Weightage of Each Domain

No	Theme	Cognitive	Affective	Psychomotor	Weightage
1	Discovering Self and	13%	3%		16%
	Immediate Environment				
2	Ethics and Values	7%			7%
3	Responsible Citizenship	7%			7%
4	Patriotism and Knowledge	8%			8%
	of the Country				
5	Goods and Services	9%			9%
6	Life Sciences	17%			17%
7	Physical Sciences	13%			13%
8	Earth and Space Science	22%			22%
	Total (100%)	90%	3%		100%

Table of Specification

Table of Specification										
Competency Learning Domains	Discover ing Self and Immedi ate Environ ment 16%	Ethics and Values 7%	Respon sible Citizen ship 8%	Patriot ism and Knowl edge of the Country 8%	Good s and Servic es 9%	Life Scienc es 17%	Physical Sciences 13%	Earth and Space Science 22%	Total	
			Co	gnitive Do	main					
Remember 68%	9	5	5	6	5	12	9	17	68	
Understand 13%	2	1	2	1	2	2	1	2	13	
Apply 11%	1	1	1	1	1	2	2	2	11	
Analyze 5%	1				1	1	1	1	5	
Evaluate 0%										
Create 0%										
			Af	fective Do	main					
Receiving 2%	2								2	
Valuing 1%	1								1	
Total 100%	16%	7%	8%	8%	9%	17%	13%	22%	100%	

List of Assessment Codes

The following processes were used to develop codes.

- The first letters of Cognitive Domain "C", Remember Cognitive Dimension "R" and Factual Knowledge Dimension "F" to form the overall domain code as "CRF". Similarly, the first letters of the Cognitive Domain "C", Understand Cognitive Dimension "U" and Conceptual Knowledge Dimension "C" were combined to form the overall domain code as "CUC". In this way all the overall domain codes were generated for the cognitive Domain. The same strategy was used for Affective and Psychomotor Domains.
- The overall domain codes were combined with NCP Reference to form specific codes for each SLO. For example, for the first SLO, "Greet others by saying Assalam o Alaikum, Hello, Good Morning etc." falling in Domain B: Ethics and Values in CRF overall code, the specific code of CRFB-01 was developed. The same procedure was used for developing codes for all the SLOs falling in cognitive, affective, and psychomotor domains.
- Specific assessment strategies for each of the overall domain code suited for assessing specific SLO were also identified.

This exercise was important to identify the specific domain code in which the SLO was falling so that a valid assessment strategy could be used for assessing each SLO. The table below presents the overall domain code, NC reference, list of SLOs and assessment strategies for each grade level. The codes can also be used as a reference point in different types of assessments.

List of Codes, SLOs and Assessment Strategies

Grade I

Cognitive Domain

Overall Domain Code	NCP Reference	SLO	Codes	Assessment Strategies
CRF Cognitive Remember Factual	GK-01-A-05	Identify some family members (parents, brothers and sisters, grand-parents, aunts, uncles and cousins (paternal and maternal).	CRFA-05	MCQ,
	GK-01-A-07	Name and identify the people they interact with in school (teachers, students, principal, service providing staff etc.).	CRFA-07	
	GK-01-B-01	Greet others by saying Assalam o Alaikum, Hello, Good Morning etc.	CRFB-01	
	GK-01-D-02	Tell the full name of our country and date of formation.	CRFD-01	
	GK-01-D-03	Recognise that all the countries have a flag	CRFD-02	
	GK-01-C-01	Draw the flag of Pakistan.	CRFD-03	
	GK-01-F-01	Name the games they like to play.	CRFC-01	
	GK-01-F-03	Name and identify e.g., through labelling) major parts of the human body (eyes, nose, ears, mouth, arms, feet, hands, and legs).	CRFF-01	
	GK-01-A-05	Name the five senses.	CRFF-03	
CRC Cognitive	GK-01-F-02	Identify the functions of various body parts.	CRCF-02	MCQs, Teacher Observation,
Remember Conceptual	GK-01-F-ADD	Recognize that some people don't have all the body parts and senses and they are also valuable members of the society.	CRCF-ADD	Short Questions.
	GK-01-F-ADD	Identify the unhealthy habits that cause illnesses (like cough and diarrhea etc.)	CRCF-ADD	

G K - 0 1 - F - 0 9	Recognise living and non-living things around them in nature.	CRCF-09
GK-01-F-11	Identify plants in their environment.	CRCF-11
GK-01-F-13	Identify the things around them that are made up of plants/ trees.	CRCF-13
GK-01-F-15	Identify some common domestic and wild animals.	CRCF-15
GK-01-F-16	Identify the food which different animals eat.	CRCF-16
GK-01-F-18	Identify places where animals are found (desert, jungle, water, mountains etc.)	CRCF-18
GK-01-F-ADD	Identify the differences between common, domestic and wild animals in terms of physical features	CRCF-ADD
GK-01-H-03	Identify Earth as a planet.	CRCH-03
GK-01-H-04	Recognise the shape of the Earth.	CRCH-04
GK-01-H-05	Identify celestial objects in the sky during day and night.	CRCH-05
GK-01-H-07	Recognise that the moon and stars shine at night.	CRCH-07
GK-01-A-08	Describe the activities they engage in at school	CRCA-08

	GK-01-A-ADD	Narrate the special qualities of some of their friends	CRCA-ADD	
	GK-01-F-05	Match the sensory descriptions of each of the five senses	CRFF-05	
	GK-01-E-01	Identify the means of transportation which people use.	CRCE-01	
	GK-01-E-ADD	Identify the places where buses and trains stop, airplanes land and ships berth.	CRCE-ADD	
	GK-01-E-ADD	Describe the activities that take place at a bus stop, railway station, airport, and harbor.	CRCE-ADD	
	GK-01-G-01	Identify what makes objects move.	CRCG-01	
	GK-01-G-04	Recognize from pictures of the past that force applied by humans and animals moved vehicles (Tonga, bullock cart, cycle, pushcart) while today vehicles are moved by machines (bus, motorcycle and car etc.)	CRCG-04	
CRP Cognitive Remember Procedural	GK-01-C-02	Demonstrate the importance of collaboration by participating in group activities and games.		short answers, matching, (quiz), Define different terms and terminologies.
CUF Cognitive Understanding Factual	GK-01-A-ADD	Share and understand the rules they follow in class and school	CUFA-ADD	Short answers, teacher observation
CUC Cognitive	GK-01-E-02	Differentiate between slow & fast means of transportation.	CUCE-02	Close ended Constructed
Understanding	GK-01-C-03	Recognize the importance of following rules.	CUPC-03	Reponses, CRQs,
Conceptual	GK-01-B-ADD	Recognize that they should respect everyone	CRCB-ADD	Choosing words,

	GK-01-A-03	Recognize and explain that individuals have different needs and qualities, and different likes and dislikes.	CUCA-03	binary choice
	GK-01-C-05	Describe the importance of playing games and exercise for better health for girls, boys, and differently abled groups.	CUCC-05	
	GK-01-F-ADD	Recognize the fact that germs can cause diseases and list the ways to avoid germs.	CUCF-ADD	
	GK-01-F-ADD	Discuss the importance of keeping their school clean.	CUCF-ADD	
	GK-01-F-10	Understand that living things need air, water, and food.	CUCF-10	
	GK-01-F-12	Recognise the importance of plants/ trees as a source of food, shade, oxygen, and shelter.	CUCF-12	
	GK-01-F-17	Recognize the importance of animals as a source of food, joy, and transport.	CUCF-17	
	GK-01-H-01	Recognize that the Earth is covered with land and water.	CUCH-01	
	GK-01-H-02	Recognise the concept of planets	CUCH-02	
	GK-01-H-06	Recognise that the sun shines very brightly during the day and gives us heat and light.	CUCH-06	
CUP Cognitive Understanding	GK-01-F-19	Recognize measures for better care of domestic and wild animals and plants.	CUPF-19	Open ended CRQs; observation
Procedural	GK-01-C-04	Observe and identify the rules when playing a game.	CUPC-04	through play; quiz; discussion
	GK-01-B-04	Recognise and identify the etiquettes of using the washroom.	CUPB-04	on video
CAF Cognitive Application	GK-01-G-02	Show that an object moves when we push it or pull it	CAFG-02	Short questions, Matching words, Quiz

Factual				
CAC Cognitive Application Conceptual	GK-01-F-04	Relate their body parts with the five senses (which body part helps them to taste, touch, smell, hear and see).	CACF-04	Listening and responding, reading and explaining a text
	GK-01-G-03	Understand and explore how push action moves things away from us while a pull action brings things closer to us.	CACG-03	of an article/video in context
CAP Cognitive Application procedural	GK-01-F-07	Apply different ways to keep themselves clean (washing hands before and after meals and after using the toilet, clipping/trimming nails, brushing teeth daily, taking bath regularly etc.)	CAPF-07	Role play, group project; observation; CRQ; SAQs; MCQs
	GK-01-F-14	Demonstrate measures for better care of plants.	CAPF-14	, ,
	GK-01-B-03	Demonstrate etiquettes of eating (don't waste food, eat with clean hands, don't drop food around)	CAPB-03	
	GK-01-B-02	Demonstrate aspects of good character (punctuality, speaking politely, kindness, caring, honesty and truthfulness)	CAPB-02	
CANC Cognitive	GK-01-F-ADD	Differentiate between animals that can and cannot be kept at home, with reasons.	CANCF-ADD	Debate, open- ended discussion
Analysis Conceptual	GK-01-F-ADD	Differentiate between the plants around them based on their characteristics.	CANCF-ADD	
CANP Cognitive Analysis Procedural	GK-01-F-ADD	Extend their knowledge to analyze different scenarios like 'if you were given a wild animal to keep as a pet, what steps would you take for your own safety and the care of the animal.	CANPF-ADD	portfolio
	GK-01-F-08	Differentiate between healthy and unhealthy food with	CANPF-08	

		examples and state the hazards of eating unhealthy food.		
	GK-01-A-04	Analyze and describe the ways in which they are same as and different from others with respect to likes and dislikes.	CANPA-04	
CAM Cognitive Analysis Metacognitive	GK-01-A-02	Identify good qualities in themselves and others (telling the truth; respecting elders and listening to their advice; getting up early in the morning etc.)	CRMA-02	Group discussion, Portfolio,

Affective Domain

Overall Domain Code	NC Reference	SLO	Codes	
ARE Affective Responding	GK-01-A-01	Describe themselves briefly. For example, their name, age, likes, games, favorite food, what they want to be when they grow up, etc.	ARA01	Completion of class tasks/homework; participation in class/group discussion; presentation; observation through chart presentation); Gallery Walk; response to questions; compliance with class rules and certain procedures
AV Affective Valuing	GK-01-A-02	Identify good qualities in themselves and others (telling the truth; respecting elders and listening to their advice; getting up early in the morning etc.)	AVA-02	Write an opinion piece on any issue, explaining one's own stance and reasons
	GK-01-A-03	Recognize and explain that individuals have different needs and qualities, and different likes and dislikes.	AVA-03	supporting that stance; proposing a plan to
	GK-01-F-ADD	Recognise that some people don't have all the body parts and senses and they are also valuable members of the society.	F-ADD	improve team skills; panel discussion
	GK-01-B-02	Demonstrate aspects of good character (punctuality, speaking politely, kindness, caring, honesty and truthfulness	AVB-02	
	GK-01-B-03	Demonstrate etiquettes of eating (don't waste food, eat with clean hands, don't drop food around)	AVB-03	

AO	GK-01-A-04	Analyze and describe the ways in which they are same	AOA-04	Interviews/ Discussion/
Affective		as and different from others with respect to likes and		Voting
Organizing		dislikes.		S

Psychomotor Domain

Overall Domain	NC	SLO	Codes	
Code	Reference			
PM	GK-01-D-03		PMD-03	Performance test
		Draw the flag of Pakistan.		Performance in a
		ŭ		game



LIST OF CODES, SLOs AND ASSESSMENT STRATEGIES

Grade II

Cognitive Domain

Overall Domain Code	NC Reference	SLO	Codes	Assessment Strategies
CRF Cognitive Remember	GK-02-B-02	List the things they can share with others (toys, books, stationery items, lunch with friends etc.) (F)	CRFB-02	MCQ
Factual	GK-02-C- ADD	List any three rights of the citizens (right to food, free education, protection, equality and health care).	CRFC-ADD	CRQ; Column Matching
	GK-02-D-02	Name the provinces and areas (AJK, GB and ICT) of Pakistan.	CRFD-02	
	GK-02-E-05	List the major agricultural crops and livestock in Pakistan	CRFE-02	
	GK-02-F-02	List the functions of root, stem, leaf and flower.	CRFF-02	
	GK-02-F-13	Name different places where animals live (nest, den, barrow etc.)	CRFF-13	SAQs; Open-ended questions
	GK-02-F-09	List the animals they see in their surroundings (land and water).	CRFF-09	
	GK-02-G-08	List the uses of heat and light.	CRFG-08	
CRC Cognitive Remember	GK-02-A-01	Recognise that the people of Pakistan live in different types of areas (villages, cities, towns, and kachi abadis).	CRCA-01	MCQs, Teacher observation, short questions, activities
Conceptual	GK-02-A-03	Identify some common professions and occupations in Pakistan (farmer, butcher, cobbler, teacher etc.)	CRCA-0E	questions, detivities
	GK-02-A-	Identify key characteristics of different types of areas	CRCA-ADD	

ADD	(buildings, facilities, environment and the work people do)		
GK-02-B-03	Identify from given pictures and stories the ways in which people help each other (at home, in classroom, in village/city, at the time of any need or disaster)	CRCB-03	
GK-02-B-05	Identify that all human beings are similar, but differ by religion, family, culture, abilities, ethnicity	CRCB-05	
GK-02-B-06	Identify occasions when it is important to wait for one's turn. For example, while speaking, in the school, on the bus stop, at canteen and ticketing counters etc.	CRCB-06	
GK-02-B- ADD	Identify ways in which we can redress the hurt caused to others (ask for forgiveness, say sorry, do something special for them etc.)	CRCB-ADD	Role play; CRQs; Open-ended questions; discussion
GK-02-B- ADD	Identify ways of making unfair situations fair.	CRCB-ADD	
GK-02-C-01	Identify some traffic rules.	CRCC-01	
GK-02-C-02	Identify the safety rules they should follow while walking on the road, crossing a road, traveling by a bus etc.	CRCC-02	
GK-02-C-04	Recognise the multiple religions in Pakistan.	CRCC-04	
GK-02-C- ADD	Identify masjid in their neighborhood as a place of worship for Muslims.	CRCC-ADD	
GK-02-D-01	Recognise the map of Pakistan.	CRCD-01	
GK-02-D-03	Identify the national capital of Pakistan	CRCD-03	
GK-02-D-04	Recognise some of the national symbols of Pakistan such as the national animal, fruit, flower, bird, and sport	CRCD-04	

GK-02-D-06	Identify what the colors and symbols on the flag represent.	CRCD-06	
GK-02-D-08	Identify festivals celebrated by Muslims in Pakistan and describe how they are celebrated.	CRCD-08	
GK-02-D-09	Identify festivals of other major religions and cultures in Pakistan and describe how they are celebrated.	CRCD-09	
GK-02-D- ADD	Recognise and draw the flag of AJK.	CRCD-ADD	Match columns; pictures;MCQs; single-
GK-02-E-01	Identify some professions from pictures (teaching, business, farming, medicine etc.).	CRCE-01	sentence answers; fill in the blanks
GK-02-E-02	Recognise the role of some common professions in their daily lives	CRCE-02	
GK-02-E-04	Recognise professional achievements of celebrated Pakistanis including women/ minority groups/ differently abled groups.	CRCE-04	
GK-02-F-01	Identify major parts of a plant (root, stem, leaf and flower).	CRCF-01	
GK-02-F-03	Identify different shapes of leaves found around them	CRCF-03	
GK-02-F-04	Identify the roots, stems, flowers, leaves which are eaten by people.	CRCF-04	
GK-02-F-05	Identify the fruits which have seeds in them.	CRCF-05	Short questions; observations
GK-02-F-06	Recognise that some plants grow from seeds while others grow from stems or roots	CRCF-06	
GK-02-F-07	Identify that soil, light, air and water are needed to grow a plant.	CRCF-07	

GK-02-F-08	Recognise that plants make their own food in the presence of sunlight.	CRCF-08
GK-02-F-11	Recognise different animals and their young ones. For example, horse and foal, cat and kitten, dog and puppy, hen and chick, frogs and tadpoles, butterflies and caterpillars etc.	CRCF-11
GK-02-G-01	Recognise some common materials such as wood, plastic, metal, glass, rock, paper and fabric.	CRCG-01
GK-02-G-02	Identify the materials used in some of the objects around them.	CRCG-02
GK-02-G-05	Identify sources of heat and light in their homes, schools and surroundings.	CRCG-05
GK-02-G-09	Recognise that the intensity of heat and light is felt more as they come nearer to the source.	CRCG-09
GK-02-G-10	Recognise that push & pull moves things fast or slow, (push and pull as a force)	CRCG-10
GK-02-G-11	Recognise that greater the force, the greater the change in the motion of an object.	CRCG-11
GK-02-H-04	Identify the natural sources of water around themselves.	CRCH-04
GK-02-H-06	Recognise that some areas of Pakistan experience shortage of water.	CRCH-06
GK-02-H-07	Identify the ways in which human beings waste water.	CRCH-07
GK-02-H-09	Identify the ways in which the land is destroyed due to human activity (deforestation).	CRCH-09

CUC Cognitive Understanding	GK-02-A-04	Recognize that people from different areas, religions, and cultures can be friends.	CUCA-04	Close ended Constructed Reponses, CRQs,
Conceptual	GK-02-B-01	Recognise the importance of sharing things.	CUCB-01	Choosing words,
	GK-02-B-09	Recognise that mistakes are a natural outcome of learning and nothing to be ashamed about or to make fun of.	CUCB-09	binary choice,
	GK-02-B- ADD	Recognise that when people apologize for their mistake they should forgive them.	CUCB-ADD	
	GK-02-C-02	Recognise what they say and do, can hurt others, and what others do and say, can hurt them (telling lies, making fun of others, pushing others, bullying using derogatory words etc.)	CUCC-02	
	GK-02-C-03	Recognize the role of government and identify some goods and services that the government provides for the people (health, education, clean water, infrastructure, utilities, safety and security, parks, and playgrounds etc.).	CUCC-03	
	GK-02-C-05	Recognise that everyone has a right to practice their own religion freely.	CUCC-05	
	GK-02-C- ADD	Discuss careful use of food, water and other resources, regularity, and hard work towards education, taking care of surroundings and hygiene, treating everyone equally, and following rules and regulations	CUCC-ADD	
	GK-02-D-05	Recognise the significance of the national flag.	CUCD-05	
	GK-02-E-03	State which profession they like the most and why.	CUCE-03	
	GK-02-E-06	Recognise that people process the crops they grow for making products (cotton to thread to cloth to garments)	CUCE-06	
	GK-02-E-07	Discuss the importance of livestock.	CUCE-07	

	GK-02-F- ADD	Highlight the importance of plants for a clean environment.	CUCF-ADD	
	GK-02-F-10	Recognise the animals that live on land (including birds) are different in features from those that live in water.	CUCF-10	
	GK-02-G-06	Group sources of light and heat into natural and human made.	CUCG-06	
	GK-02-G-07	Describe methods of producing heat (burning and rubbing etc.)	CUCG-07	
	GK-02-H-01	Recognise that the planet Earth is a source of all materials we use, and many useful materials and resources come from it.	CUCH-01	
	GK-02-H-02	Recognise that natural resources are essential for survival of human beings (land, forests/plants, water, air, Sun etc.	CUCH-02	
	GK-02-H-03	Recognise that people manufacture different things from natural resources to serve human needs.	CUCH-03	
	GK-02-H-05	Recognise the importance of water resources	CUCH-05	
CUP Cognitive	GK-02-F-12	Describe and compare how the offspring of different animals grow into adults, including humans, birds, frogs and butterflies.	CUPF-12	Open ended CRQs
Understanding Procedural	GK-02-G-12	Observe and describe how motion of an object can be changed by applying force (speed up, slow down, stop, change direction etc.)	CUPG-12	
CAC Cognitive	GK-02-B-04	Relate with examples from their daily life the ways in which people are interdependent .	CACB-04	Listening and responding, reading
Application Conceptual	GK-02-B- ADD	Accept responsibility for treating others unfairly and manage their behavior accordingly.	CACB-ADD	and explaining a text of an article/video in context
	GK-02-C-06	Inquire about places of worship of major religions in Pakistan (masjid, church, Gurdwara, temple).	CACC-06	

	GK-02-C-07	Practice respect for all places of worship and all religions.	CACC-07	
	GK-02-D-07	Depict the cultural diversity of all provinces and areas of Pakistan	CACD-07	
	GK-02-H-08	Suggest ways to save water.	CACH-08	
CAP Cognitive Application Procedural	GK-02-A- ADD	Research (through oral investigation) about different professions that exist in Pakistan.	CAPA-ADD	Role play, group project
CAM Cognitive application meta cognitive	GK-02-B- ADD	Mend their behaviour when it is proven unfair through realization.	CAMB-ADD	Create a blog
CANF Cognitive Analysis Factual	GK-02-B-07	Demonstrate ways in which they can show respect for all.	CANFB-07	Interpretive exercises with brief information followed by short questions, MCQ
CANC Cognitive Analysis Conceptual	GK-02-A-02	Differentiate between lifestyles of people living in different areas (villages, cities, towns, and kachi abadis).	CANFA-02	Debate, mini research project
CEC Cognitive	GK-02-B-10	Differentiate between fair and unfair behavior in daily live.	CECB-10	Compare and contrast, revision,
Evaluation Conceptual	GK-02-G-04	Differentiate between the natural and man-made materials.	CECG-04	rewriting and reproducing, constructed and extended response.
	GK-02-G-03	Explore properties of materials with respect to color, hardness, texture, sink/ floats	CECG-03	
	GK-02-G- ADD	Explore properties of materials with respect to elastic/non-elastic, magnetic/non-magnetic.	CECG-ADD	

CEM Cognitive	GK-02-C- ADD	Reflect on their responsibilities towards the natural world.	CEMC-ADD	Writing an opinion based critical
Evaluation	ADD			response.
Metacognitive				

Affective Domain

Overall	NC	SLO	Codes	Assessment Strategies
Domain Code	Reference			
ARE Affective Responding	GK-02-C-02	Recognize what they say and do, can hurt others, and what others do and say, can hurt them (telling lies, making fun of others, pushing others, bullying using derogatory words etc.)	ARC-02	Completion of class tasks/homework; participation in class/group discussion;
	GK-02-C- ADD	List any three rights of the citizens (right to food, free education, protection, equality and health care).	ARC-ADD	presentation; response to questions; compliance
	GK-02-B- ADD	Recognise that when people apologize for their mistake, they should forgive them.	ARB-ADD	with class rules and certain procedures.
	GK-02-C- ADD	Identify masjid in their neighborhood as a place of worship for Muslims.	ARC-ADD	
AV	GK-02-B-07	Demonstrate ways in which they can show respect for all.	AVB-07	Write an opinion piece
Affective Valuing	GK-02-C-07	Practice respect for all places of worship and all religions. Mend their behavior when it is proven unfair	AVC-07	on any issue, explaining one's own stance and reasons supporting that stance; proposing a plan to improve team skills

Psychomotor Domain

Overall Domain Code	NC Reference	SLO	Codes	Assessment Strategies
PS Psychomotor	GK-02-D- ADD	Recognize and draw the flag of AJK.	PSD-ADD	Starting a portfolio,



LIST OF CODES, SLOs AND ASSESSMENT STRATEGIES

Grade III

Cognitive Domain

Overall Domain Code	NCP Reference	SLO	Codes	Assessment Strategies
CRF Cognitive	GK-3-A- ADD	List the various hazards they can face at home (bare wires, damaged roof, broken glass, fire, scissor etc.)	CRFA-ADD	MCQs
Remember Factual	GK-3-D-03	Introduce Mohtarma Fatima Jinnah as a key figure in the formation of Pakistan.	CRFD-03	
	GK-3-E-02	State types of resources: natural resources, human resources and capital resources.	CRFE-02	
	GK-3-F-07	Name plants and animals that live in each of these different habitats.	CRFF-07	
	GK-3-H- ADD	Name places towards North, South, East, and West of the school/home.	CRFH-ADD	
CRC Cognitive	GK-3-A- ADD	Identify how schools, communities, and transportation have changed over time (from the given pictures)	CRCA-ADD	MCQs, Teacher observation, short questions
Remember Conceptual	GK-3-A-05	Identify some natural disasters and ways to stay safe.	CRCA-05	questions
	GK-3-B-02	Identify feelings of people in different conflicting situations.	CRCB-02	
	GK-3-B-03	Identify reasons for disagreements with friends and family members.	CRCB-03	
	GK-3-C-01	Recognise that people are members of a local community	CRCC-01	
	GK-3-C-02	Recognise that communities meet people's needs.	CRCC-02	
	GK-3-C-04	Identify ways they can demonstrate good citizenship (playing	CRCC-04	

	fairly, helping others, following rules, taking responsibility for one's actions, sense of ownership of public goods).	
GK-3-C- ADD	Identify key problems in their local area (shortage of drinking water, lack of health and educational facilities, poor sewerage system etc.)	CRCC-ADD
GK-3-D-01	Introduce Quaid-e-Azam Muhammad Ali Jinnah as the founder of Pakistan.	CRCD-01
GK-3-D-02	Narrate the major events in the life of Quaid-e Azam Muhammad Ali Jinnah (date of birth, founder of Pakistan, few major contributions, and the date when he died).	CRCD-02
GK-3-D-05	Narrate the major events in the life of Allama Muhammad Iqbal (date of birth, national poet, some famous poems for children, and the date when he died).	CRCD-05
GK-3-D-04	Introduce Allama Muhammad Iqbal as a personality who expounded the idea of Pakistan.	CRCD-04
GK-3-E-01	Define the term "resources".	CRCE-01
GK-3-E-03	Identify natural resources (plants, animals, water, air, land, forests and soil), human resources (farmers, builders, painters etc.), capital resources (trucks, computers, factory buildings etc.).	CRCE-03
GK-3-E-04	Define the terms: goods, services, buyers and sellers.	CRCE-04
GK-3-E-05	Identify the main goods and services of their local area.	CRCE-05
GK-3-E-06	Describe the need for interdependence as not all goods and services are available in their area.	CRCE-06
GK-3-E-07	Describe scarcity and recognise that people make economic choices because goods and services are limited.	CRCE-07

GK-3-F-01 Recognise that healthy living requires eating a balanced diet, keeping clean, sleeping well, and exercising regularly, drinking clean water, brushing teeth) GK-3-F-02 Identify certain food groups as fruits, vegetables, grains, dairy product, eggs, meat and dry fruit and their. relative proportions. GK-3-F-03 Recognise that certain diseases are infectious, and vaccinations can help prevent such diseases. GK-3-F-04 Describe how good hygiene and healthy habits can control the spread of diseases. GK-3-F-05 Recognize the term 'habitat'. GK-3-F-06 Recognize the type of habitats for living things (polar, desert, forest, aquatic). GK-3-F-08 Identify the environmental factors (temperature, light, water) that support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. GK-3-G-01 Recognise that energy is required for doing work. GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-06 Recognise basic differences between states of matter. GK-3-G-08 Recognise the basic components of a simple circuit: cells, wires, and bulb.			
product, eggs, meat and dry fruit and their. relative proportions. GK-3-F-03 Recognise that certain diseases are infectious, and vaccinations can help prevent such diseases. GK-3-F-04 Describe how good hygiene and healthy habits can control the spread of diseases. GK-3-F-05 Recognize the term 'habitat'. GK-3-F-06 Recognise the type of habitats for living things (polar, desert, forest, aquatic). GK-3-F-08 Identify the environmental factors (temperature, light, water) that support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. GK-3-G-01 Recognise that energy is required for doing work. GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-06 Recognise basic differences between states of matter. GK-3-G-08 Identify how we use electricity and safety measures. CRCG-09 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires,	GK-3-F-01	keeping clean, sleeping well, and exercising regularly, drinking	CRCF-01
vaccinations can help prevent such diseases. GK-3-F-04 Describe how good hygiene and healthy habits can control the spread of diseases. GK-3-F-05 Recognize the term 'habitat'. GK-3-F-06 Recognise the type of habitats for living things (polar, desert, forest, aquatic). GK-3-F-08 Identify the environmental factors (temperature, light, water) that support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. GK-3-G-01 Recognise that energy is required for doing work. GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. GK-3-G-06 Recognise basic differences between states of matter. GK-3-G-08 Identify how we use electricity and safety measures. GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires,	GK-3-F-02	product, eggs, meat and dry fruit and their.	CRCF-02
spread of diseases. GK-3-F-05 Recognize the term 'habitat'. CRCF-05 GK-3-F-06 Recognise the type of habitats for living things (polar, desert, forest, aquatic). GK-3-F-08 Identify the environmental factors (temperature, light, water) that support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. CRCF-09 GK-3-G-01 Recognise that energy is required for doing work. CRCG-01 GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. CRCG-05 GK-3-G-06 Recognise basic differences between states of matter. CRCG-06 GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires,	GK-3-F-03	_	CRCF-03
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forest, aquatic). GK-3-F-08 Identify the environmental factors (temperature, light, water) that support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. CRCF-09 GK-3-G-01 Recognise that energy is required for doing work. CRCG-01 GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. CRCG-05 GK-3-G-06 Recognise basic differences between states of matter. CRCG-06 GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires,	GK-3-F-05	Recognize the term 'habitat'.	CRCF-05
support life in a habitat. GK-3-F-09 Identify the ways in which human activities affect natural habitats. CRCF-09 GK-3-G-01 Recognise that energy is required for doing work. CRCG-01 GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. CRCG-05 GK-3-G-06 Recognise basic differences between states of matter. CRCG-06 GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-F-06		CRCF-06
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GK-3-G-03 Identify natural sources of energy (sun, wood, flowing water, wind, coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. GK-3-G-06 Recognise basic differences between states of matter. GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-F-09	Identify the ways in which human activities affect natural habitats.	CRCF-09
coal, oil, gas). GK-3-G-05 Identify materials as either solids, liquids or gases. CRCG-05 GK-3-G-06 Recognise basic differences between states of matter. CRCG-06 GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-G-01	Recognise that energy is required for doing work.	CRCG-01
GK-3-G-06 Recognise basic differences between states of matter. CRCG-06 GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-G-03		CRCG-03
GK-3-G-08 Identify how we use electricity and safety measures. CRCG-08 GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-G-05	Identify materials as either solids, liquids or gases.	CRCG-05
GK-3-G-09 Recognise the basic components of a simple circuit: cells, wires, CRCG-09	GK-3-G-06	Recognise basic differences between states of matter.	CRCG-06
	GK-3-G-08	Identify how we use electricity and safety measures.	CRCG-08
	GK-3-G-09	-	CRCG-09

	GK-3-H-02	Recognise that heat and light of the Sun helps to sustain life on Earth which is the only known planet where life exists.	CRCH-02	
	GK-3-H-04	Identify that on Earth, the direction of sunrise is 'East' and the direction of sunset is 'West'.	CRCH-04	
	GK-3-H-05	Identify South and North with respect to East and West, namely, South and North.	CRCH-05	
	GK-3-H- ADD	Name the eight planets of solar system.	CRCH-ADD	
	GK-3-H-06	Define the term pollution.	CRCH-06	
	GK-3-H-09	Identify the endangered animals of Pakistan (Indus dolphin, markhor, blackbuck etc.).	CRCH-09	
	GK-3-H- ADD	Identify animals, which are extinct (dinosaurs, etc.)	CRCH-ADD	
CRP Cognitive Remember Procedural	GK-3-A- ADD	Sequence events in a narrative in chronological order.	CRPA-ADD	short answers, matching, (quiz), Define different terms
	GK-3-F- ADD	Recognise people who use science in their local area e.g., everyday use of science, restaurant chefs, dietitians, food manufacturers, dairy farmers.	CRPF-ADD	and terminologies.
	GK-3-F-12	Identify the changes in the lifespan of an animal and a plant.	CRPF-12	
CUF Cognitive Understanding Factual	GK-3-D-06	Discuss what they have learnt from the major events/contributions of Quaid-e-Azam Muhammad Ali Jinnah.	CUFD-06	Short answers, teacher observation
CUC Cognitive	GK-3-A-01	Recognise that present time is different from the past in terms of living style, food, communication, clothes etc.	CUCA-01	Close ended Constructed

Understanding Conceptual	GK-3-A-02	Recognise the need for personal safety	CUCA-02	Reponses, CRQs, Choosing words,
Conceptual	GK-3-A-03	Explain the risk and danger associated with the use of electric appliances/ sharp objects/ fire/ strangers, water bodies and animals.	CUCA-03	binary choice,
	GK-3-A-04	Express feelings of discomfort, confusion, fear, and danger to their parents/ teachers/ guardians to stay safe from any unexpected situation.	CUCA-04	
	GK-3-B-01	Recognise some disagreements/conflicts that occur at home, in school and in the local community.(C	CUCB-01	
	GK-3-C- ADD	Describe the activities that individuals perform for the welfare of the community.	CUCC-ADD	
	GK-3-G-07	Discuss different states of water.	CUCG-07	
	GK-3-H-01	Explain that our solar system is made of a large star and eight planets.	CUCH-01	
CUM Cognitive Understanding Metacognitive	GK-3-H- ADD	Predict what would happen if natural resources were all used up.	CUMH-ADD	Opinionated CRQS
CAF Cognitive Application Factual	GK-3-H-10	Suggest ways to reduce pollution (3 r's)	CAFH-10	Short questions, Matching words, Quiz
CAC Cognitive	GK-3-C-03	Suggest ways the government and people can work together to meet people's needs in the area.	CACC-03	Listening and responding, reading
Application Conceptual	GK-3-H-10	Suggest ways to protect the endangered animals.	CACH-10	and explaining a text of an article/video in

	GK-3-G-04	Demonstrate that energy is present in all matter and in sound, light, and heat.	CACG-04	context
CAP Cognitive Application	GK-3-A- ADD	Practice safety measures while using electrical appliances.	CAPA-ADD	Role play, group project
Procedural	GK-3-B-04	Explore the ways in which people resolve conflicts/ disagreements at home and school.	CAPB-04	
	GK-3-B- ADD	Apply discussion and problem-solving methods to work out disagreement.	CAPB-ADD	
	GK-3-F-10	Research and suggest the ways in which habitats can be protected.	CAPF-10	
CANF Cognitive Analysis Factual	GK-3-G-10	Explore construction of simple circuit	CANFG-10	Interpretive exercises with brief information followed by short questions, MCQ
CANC Cognitive	GK-3-F-11	Compare different stages of lifespan of plants and animals (from pictures, through observation / video etc.)	CANCF-11	Debate, mini research project
Analysis Conceptual	GK-3-G-02	Inquire that sources of energy are used for many things (move an object, heating, lighting, transportation, electric appliances, etc.).	CANCG-02	
CEC Cognitive Evaluation Conceptual	GK-3-H-03	Explain how the rotation of the Earth causes day and night.	CECH-03	Compare and contrast, revision, rewriting and reproducing, constructed and extended response.

Affective Domain

Overall	NC	SLO Code	es Assessment
Domain Code	Reference		Strategies

AR	GK-03-B-02	Identify feelings of people in different conflicting situations.	ARB-02	Completion of class tasks/homework; participation in class/group discussion; presentation; response to questions; compliance with class rules and certain procedures
AV Affective Valuing	GK-03-A-04	Express feelings of discomfort, confusion, fear, and danger to their parents/ teachers/ guardians to stay safe from any unexpected situation.	AVA-04	Group discussion; observation; class activity

Psychomotor Domain

Overall	NC	SLO	Codes	Assessment
Domain Code	Reference			Strategies
PS Psychomotor Set	GK-03-G-10	Explore construction of simple circuit	PPG-10	Starting a portfolio, undertaking responsibilities

CHAPTER THREE

ASSESSMENT DURING INSTRUCTION

Chapter Three

Assessment during Instruction

Designing Classroom Assessment

The design of classroom assessment depends on how classroom learning is approached. The three commonly understood approaches to learning are surface learning, strategic learning and deep learning (Entwistle, 2000). Differences between deep, surface and strategic learners are summarised below.

Surface Approach	Strategic Approach	Deep Approach
Reproducing Intention –	Reflective	Seeking MeaningIntention -
merely to cope with course	OrganisingIntention - to	to understand ideas by:
requirements by:	achieve the highest possible	- Relating ideas to previous
- Treating the course as	grades by:	knowledge and experience
unrelated bits of knowledge	- Putting consistent effort into	- Looking for patterns and
- Memorizing facts and	studying	underlying principles
carrying out procedures	- Managing time and effort	- Examining logic and
routinely	effectively	argument cautiously and
- Finding difficulty in	- Finding the right conditions	critically
making sense of new ideas	and materials for studying	- actively interacting with the
presented	- Monitoring the effectiveness	course content
- Seeing little value or	of ways of studying	- Reading and studying
meaning in either courses or	- Being alert to assessment	beyond the
tasks set	requirements and criteria	course requirements
- Feeling undue pressure and	- Using previous exam papers	- Taking interest
worry about work	and assessments to predict	
	questions	

Note: Adapted from Entwistle, 1988; Entwistle and Ramsden, 2015

It is the teachers' responsibility to foster deep and/or strategic learning so that students can engage with the subject with the help of purposeful assessment strategies.

Assessment Strategies

Literature abounds with the different types of assessment strategies. The important question that perplexes teachers is which strategy to use and for what purposes. The simple response is that teachers must align their assessment with the SLOs. However, this alignment is not easy. Chapter Two presents a list of codes aligned with the SLOs and sample assessment strategies.

This chapter presents an explanation and examples of selected formative and summative assessment strategies.

Formative Assessment for Deep Learning Approach – Meaningful Examples

This framework further elaborates the following four strategies for assessing students' knowledge, skills and dispositions at the primary school level with examples.

- 1. Portfolio Assessment
- 2. Group Project Assessment
- 3. Selected Response (Multiple Choice/Matching/True & False)
- 4. Constructed Response (Short and long essay questions)

Portfolio Assessment

A portfolio is a record of the development in learners' thinking and ideas. A portfolio enables learners to assemble examples of their work to tell stories of their learning over a period of time. It enables teachers to assess learners' progress in ideas and understanding that cannot be adequately measured in any other way (Chappuis & Stiggins, 2017; Crockett & Churches, 2017). A portfolio can include the following:

- Examples of students' work with feedback about quality multiple drafts with revisions
- Students' self-assessment
- Student reflections on their growth as learners

Portfolio Assessment in General Knowledge

Portfolio Assessment can prove to be an effective process in General Knowledge as it involves young learners in decision making and problem-solving about social issues, past and present (Adler 1994).

Portfolios may take different forms in a General Knowledge class encompassing various stages of development of a student's work. Portfolios can serve as a means of reflecting on the knowledge learned and on the real-life tasks. It can help students enrich his/her problem solving skills by thinking different doable solutions, recognize; and permit many forms of representation or communication of knowledge and skills (Mathison 1995).

Benefits of Portfolios to the Learners

Portfolios offer opportunities for reflection and the development of self-awareness.

Learners develop a sense of ownership of their writing through having some control over both the conditions for writing and the selection of portfolio contents, which leads to a sense of responsibility.

Learners can self-assess their performance with the help of clear criteria and opportunity to revise their work.

Benefits of Portfolios to Teachers

Portfolio assessment becomes an integral part of the instructional process rather than a separate activity.

Portfolios give teachers more information about the learners' whole performances rather than fragmented skills or scores or grades on tests. The variety of activities within a portfolio can give teachers insights into the learners' strengths and weakness (Murphy & Camp, 1996).

Essential Elements of a Portfolio

- Cover page
- Introduction to the portfolio
- Table of contents
- Entries with dates
- Drafts of your work (writing sample, essays, projects and assignments, science experiments/lab reports, tests and quizzes, etc.)
- Artefacts (awards and certificates, photos, images, concept maps, etc.)
- Reflections

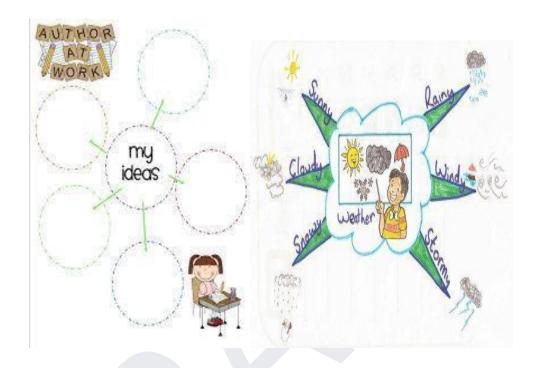
Adapted from: https://www.slideshare.net/ilovelagrosal/portfolio-assessment-42422639



An Introduction to My World of Ideas

D	ate:				
I am reading in GradeatSchool					
Pe	eople call me	and m	y teacher's na	me is	
•	There are many interesting thin world of fun with learning	ngs in this portfolio	that will take	you to another	
•	The reason of collecting creativ	re pieces of my lear	rning is		
	Here is my Autograph:)				

Brainstorming/Mind Mapping



Learners can be encouraged to brainstorm about the topic (s) they wish to write upon and these can be collected in their portfolios. For instance, students will be instructed to write about their ideas on the particular topic such as patriotism, family or their favourite food, and the teacher can play a role of a transparent entity in order to bring out students' creativity in different ways.

A Sample of Peer Assessment on a Role Play

Example from NC, Domain2, Ethics and Values

Resolve a class conflict through a role-play with different situations highlighting the traits of tolerance, flexibility, and pluralism. (Group Work)

Collection of Drafts

While a group performs their role, the other students are asked to watch carefully and provide feedback.

Peer Review of Role Play (Negative Feedback)

Teacher's Feedback

I see. There must also be good things about the role play. Let us make a rule in this class that we will begin with positive feedback (what is good about the role play) and then say what is not so good about it. Let us also help each other by explaining how the role play can improve.

Peer Review of Role Play (Positive Feedback)

The teacher discusses all feedback and gives time to the group to practice and perform again.

A Sample of Periodic Student Self-Reflection

Prompts to activate Self-Reflection

Portfolio	Starters
Type	
Celebration	I am happiest/proudest of because
	I really liked doing because
	What this portfolio says about me
	I have learnt that
	I now understand
	I can now do
	I now feel
Growth	I have become better at, I used to, but now I
	Here is what has helped me improve:
	Here is what has helped me as a
	learner:
	Here is what I learned about myself as a learner:
	Here is what gets in my way as a learner:
	Here is what is difficult for
	me:
	This used to be hard, but now it is easy: Here is what
	made it easier:
	Here are "before" and "after" pictures of my learning. The first one shows
	The second shows
Project	Here is what I learnt about myself as a learner while doing this project:
	·
	I developed the following skills while doing this project:
	Here is what I liked least/most about doing this project
	Here's
	why:
	Here is how my thinking changed about because of
	doing this project:
	This project has affected my interest in It has caused
	me to
Achievement	My selections have shown that I have mastered Here is
	how they show that

My strength in (subjects or learning target) are
I still need to work on
Here is how I achieved mastery of(learning
target):
Here how I would change what I did if I had it to do
over:
Here is what doing has taught me about myself as a
learner:
·

Criterion Referenced Assessment

Criterion referenced assessment (CRA) is the process of evaluating students' learning against some pre-specified qualities or criteria (Brown, 1998; Harvey, 2004). The criteria are presented to the students in the form of a rubric, so that they know what is being assessed. The teacher can also involve the students in developing rubrics.

CourseNumber(s):	DateSubmitted:	
	RUBRIC FOR PORTFOLIO-BASED ASSESSMENT	

Assessment Ratings	2 Partially meets expectations (12 points)	3 Meets expectations (18 points)	4 Exceeds expectations (24 points)	2 Partially meets expectations (12 points)	Score
Sources of Learning Experiences relevant to learning outcomes	Documentation and description of learning experiences related to course learning outcomes are <i>lacking</i> or substantially inadequate	Documentation and description of learning experiences related to course learning outcomes are <i>not effectively or completely presented</i>	Documentation and description of learning experiences related to course learning outcomes are appropriate and effectively presented	Documentation and description of learning experiences related to course learning outcomes exceed expectations	
Demonstration of Learning Artifacts	The portfolio's materials and artifacts are <i>not appropriate and/or adequate</i> , and are not supported by the presentation	The portfolio materials and artifacts are <i>not fully supported</i> by or connected to the course's learning outcomes	The portfolio includes <i>appropriate</i> artifacts that support the demonstration of learning outcomes	The presentation of artifacts is <i>convincing</i> , with <i>strong support</i> for the course's learning outcomes	
Evidence of Learning Competencies	The portfolio shows <i>little or no evidence</i> of learning tied to sound educational theory	The portfolio documents some, but <i>not sufficient</i> , learning tied to sound educational theory (or grounded inappropriate academic frameworks)	The portfolio <i>adequately</i> documents learning tied to sound educational theory (or grounded in appropriate academic frameworks)	The portfolio provides <i>clear evidence</i> of learning tied to sound educational theory (or grounded in appropriate academic frameworks)	
Mastering Knowledge & Skills Application of Learning	The portfolio provides <i>little evidence</i> of the student's ability to use knowledge and skills for the course's learning outcomes in practice	The portfolio demonstrates the student's ability to use the knowledge and skills for the course learning outcomes in practice is <i>limited</i>	The portfolio documents the <i>acquisition</i> of knowledge and skills for the course learning outcomes, with <i>some ability</i> to apply them in practice	The portfolio demonstrates the student has <i>mastered</i> the knowledge and skills for the course learning outcomes and can <i>apply them</i> .	
Reflection on Learning Aligned with course learning outcomes	The portfolio provides <i>little</i> or no evidence of reflection to increase learning aligned with the course learning outcomes for which credit is being sought	The portfolio provides <i>inadequate evidence of reflection</i> to increase learning aligned with the course learning outcomes for which credit is being sought	The portfolio provides <i>evidence of reflection</i> to increase learning aligned with the course learning outcomes for which credit is being sought	The portfolio shows that the student has reflected with substantial depth upon how the prior learning experience is aligned to the course learning outcomes for which credit is being sought	

Presentation Completeness and quality of the portfolio presentation	Assembly instructions have not been followed with critical portfolio elements not included; the quality of written, visual and/or digital presentation does not meet postsecondary standards	Most of the expected elements are included; the quality of written, visual and/or digital presentation does not meet postsecondary standards with too many errors in spelling, grammar and punctuation	The portfolio is <i>well organized</i> with all critical elements included; the quality of written, visual and/or digital the presentation is <i>competent</i> with minor errors in spelling, grammar and punctuation	The portfolio is well organized with all critical elements included; learning is well-documented with writing and production skills that exceed those of most students	
Overall Assessment		successful (i.e., passing) portfolio is 1	2 with a score of at least 02 in each o	f the 6 assessment criteria.	TOTA L

Name of Assessor (print):______ Date:______
Source: https://www.starkstate.edu/wp-content/uploads/2016/02/REVISED-MASTER-RUBRIC.pdf

Portfolio Assessment Rubric (Alternative)

Category	Exemplary (20 pts)	Proficient (17 pts)	Partially Proficient (13 pts)	Incomplete (5 pts)
Selection of Artifacts	All artefacts and work samples are clearly and directly related to the social studies content.	Most artefacts and work samples are related to the social studies content.	Few artefacts and work samples are related to the social studies content.	Most artefacts and work samples are unrelated to the social studies content.
Use of Graphics	The use of graphics/ photographs is integrated seamlessly into several different artefacts.	The use of graphics/photographs is included and appropriate.	The use of graphics/photographs is included but is used randomly and without purpose.	No use of graphics. The photos are distracting from the content of the portfolio.
Reflections	All reflections clearly describe why artefacts in the portfolio demonstrate achievement.	Most of the reflections describe why artefacts in the portfolio demonstrate achievement.	A few reflections describe why artefacts in the portfolio demonstrate achievement.	Reflections are missing, and those that are there do not describe why artefacts in the portfolio demonstrate achievement.
Creativity and purpose of the Index	The index serves its purpose and shows creativity. The layout and design is attractive and well thought out.	The index serves its purpose and shows some creativity	The index serves its purpose but lacks Style	The index does not serve its purpose and lacks style
Organization	The portfolio is well organized and easy to navigate.	The portfolio is somewhat organized and thus little difficult to navigate.	The portfolio is rather messy and quite challenging to navigate.	The portfolio lacks complete organization.

Source: https://www.bhprsd.org/cms/lib02/NJ01001930/Centricity/Domain/352/E-portfolio%20Rubric.pdf

Group Project Assessment

Group projects are based on cooperative learning goals, which are reflected in the diagram below:

In cooperative learning structures, a student can obtain his or her goal only when other students in the group can obtain theirs (Arends, 2007). Project work is a very good example of group work.

According to the Buck Institute of Education (BIK, 2021), students' work on a project over an extended period of time – from a week up to a semester – that engages them in solving a real-world problem or answering a complex question. They demonstrate their knowledge and skills by developing a public product or presentation for a real audience. As a result, students develop deep content knowledge as well as critical thinking, creativity, and communication skills in the context of doing an authentic, meaningful project.

The assessment in the group project can be done at two levels – the whole group presentation and an individual student performance within the project. Rubrics for both levels are given below.

Sample Assessment (NC Grade I, Domain 6, Life Sciences)

Work in small groups to design messages related to health and cleanliness and share with family and friends.

Activities:

- Work in groups to decide upon a message
- Gather information about the message
- Find pictures related to it or draw pictures to make posters or collage
- Have a display wall of posters/collage with the group message in the classroom.
- Group members present their work by talking about their message

The teacher can take photos of students' work. These can be shared with parents and also included in students' portfolios.

Multimedia Project and Performance Rubrics (Group Performance, e.g. poster/collage)

	Multimedia Project and Performance Rubrics (Group Performance, e.g. poster/collage)						
Criteria	Exceeds	Meets	Almost Meets	Does Not Meet			
	Expectations (24	Expectations	Expectations (12	Expectation (6			
	points, 4 for each	(18 points, 3 for	points, 2 for	points 1 for			
	criteria)	each criteria)	each criteria)	each criteria)			
Organisatio	Students present	Students present	Audience has	Audience cannot			
n	information in a	information in a	difficulty	understand			
	logical and	logical sequence that the audience	following	presentation			
	creative sequence that the audience	can follow.	presentation because student	because there is			
	can follow.	can follow.	does not	no sequence of information.			
	can follow.		consistently use a	iliformation.			
			logical sequence.				
Subject	Students	Students are at	Students are	Students do not			
Knowledge	demonstrate	ease and provide	uncomfortable	have grasp of			
	complete	expected	with information	information and			
	knowledge by	answers to all	and are able to	are not able to			
	answering all	questions but do	answer only	answer many			
	questions with	not provide	rudimentary	questions.			
	explanations and	elaborations.	questions.				
	elaborations.						
Graphics	Students' graphics	Students'	Students	Student uses			
	explain and	graphics relate	occasionally use	superficial			
	reinforce screen	to text and	graphics that	graphics or no			
	text and	presentations.	rarely support	graphics.			
	presentation.		text and				
Machanias	Dragontation has	Dragontation has	presentation. Presentation has	Dragantation has			
Mechanics	Presentation has	Presentation has no more than	three	Presentation has			
	no misspellings or grammatical	two misspellings	misspellings or	four misspellings or grammatical			
	errors.	or grammatical	grammatical	errors.			
	CITOIS.	errors.	errors.	Cirois.			
Eye Contact	Students maintain	Students	Students	Students read all			
·	eye contact with	maintain eye	occasionally	of the report			
	audience, seldom	contact most of	make eye contact	with no eye			
	returning to notes.	the times, but	but still read most	contact.			
		frequently return	of the report.				
		to notes.					
Elocution	Students use clear	Students' voices	Students' voices	Students			
	voice and correct,	are clear and	are not very clear	mumble,			
	precise	most of the	and they	incorrectly			
	pronunciation of	words are	incorrectly	pronounce words			
	words.	pronounced	pronounce most	and speak in a			

correctly. of the words. low tone.	
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From: Fisher and Frey (2007)

Group Project: Rubric on Group Work Performance (Affective Domain)

(Can serve for self-assessment as well as peer assessment as a group)

Name of group members:

CATEGORY	Exemplary	Proficient	Partially Proficient	Unsatisfactory	POINTS
Focus on the Task	3 points Stays on task all of the time without reminders.	2 points Stays on task most of the time. Group members can count on each other.	1 point Stays on task some of the time. Group members must sometimes remind this person to do the work.	O points Hardly ever stays on task. Lets others do the work.	/3
Work Habits	3 points Members are on time for meetings, turns in all work when it is due. Completes assigned tasks and does not depend on others to do the work.	2 points Members are usually on time for meetings, turns in most work when it is due. Completes most assigned tasks.	1 point Members are sometimes late for meetings, often turns in work late. Does not follow through on most tasks and sometimes counts on others to do the work	O points Members are late for all or most meetings, and late turning in work. Does not complete tasks. Depends on others to do all of the work.	/3
Listening,	3 points	2 points	1 point	0 points	/3

Questioning and Discussing	Members respectfully listens, discusses, asks questions and helps direct the group in solving problems.	Members respectfully listens, discusses and asks questions.	Members have trouble listening with respect, and takes over discussions without letting other people have a turn.	Members does not listen with respect, argues with teammates, and does not consider other ideas. Blocks group from reaching agreement.	
					10
Research and Information-	3 points	2 points	1 point	0 points	/3
Sharing	Members gather information and share useful ideas for discussions. All information fits the group's goals	Members usually provide useful information and ideas for discussion.	Members sometimes provides useful information and ideas for discussion.	Members almost never provide useful information or ideas for discussion.	
Group/Partner	3 points	2 points	1 point	0 points	/3

complete all group goals. Always has a positive attitude about the task(s) and the work of others All team members contributed equally to the finished finished project. Performed all duties of assigned team role and knowledge, opinions, and sills to share onterious attitude group goals. Lyually has a positive attitude makes fun of interest in completing group goals. Sometimes and shows no interest in completing group goals. Sometimes attitude makes fun of the task(s) or the task(s) or the work of other group fun of others' work and has a negative attitude. Finished individual task but did not contributed group/partner during the project. Performed all contributed team role and knowledge, opinions, and skills to share with the team. Sometimes group goals. Sometimes on interest in completing group goals. The task(s) or the work of other group fun of others' work and has a negative attitude. Pfinished individual task but did not contributed assist little to the group/partner during the project. Performed all duties of Performed a sasigned team of with the team. Performed all duties of perform any duties of assigned team role and sasigned team role and solution of knowledge, contributed a role and did not contribute with the team.	Tanananah	VA/ and a tra	Liamallin hali	0	Dana maturadi
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assigned team duties of Performed a Did not role and assigned few duties of perform any contributed team role and assigned team duties of knowledge, contributed role and assigned team opinions, and knowledge, contributed a role and did not skills to share opinions, and small amount contribute with the team. skills to share of knowledge, knowledge,		Performed all	Performed	_	_
role and assigned few duties of perform any contributed team role and assigned team duties of knowledge, contributed role and assigned team opinions, and knowledge, contributed a role and did not skills to share opinions, and small amount contribute with the team. skills to share of knowledge, knowledge,		duties of	nearly all	project.	project.
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knowledge, contributed role and assigned team opinions, and knowledge, contributed a role and did not skills to share opinions, and small amount contribute with the team. skills to share of knowledge, knowledge,		role and	assigned	few duties of	perform any
opinions, and knowledge, contributed a role and did not skills to share opinions, and small amount contribute with the team. skills to share of knowledge, knowledge,		contributed	team role and	assigned team	duties of
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skills to share opinions, and small amount contribute with the team. skills to share of knowledge, knowledge,		•	knowledge.	contributed a	· ·
with the team. skills to share of knowledge, knowledge,		•			
		Always did the	with the	opinions, and	opinions or
assigned work. team. skills to share skills to share		·			
Completed with the team. with the team.		assigned work.			
most of the Completed Relied on			·		
assigned some of the others to do				•	
work. assigned work. the work.			~		
work. assigned work. the work.			WUIK.	assigned work.	the work.

Group Project: Rubric on Individual Performance (Affective Domain)

(Can serve for self-assessment as well as peer assessment in group work)

Name of student: _____

Goal	4	3	2	1
	Did a full share of	Did an equal share	Did almost as much work as	Did little or no

Equal Work	work or more	of work	others	work
Cooperation	Took an initiative in helping the group get organized	Worked agreeably with partners	Could be persuaded to cooperate	Did not cooperate
Participation	Provided many ideas	Participated in discussions and made some suggestions	Listened to others but offered few suggestions	Seemed bored with the discussions and offered no suggestions
Support	Assisted other partners	Offered encouragement to other partners	Seemed preoccupied with own work	Took little interest in others' work
Communication	Clearly communicated ideas	Usually shared ideas	Rarely expressed ideas	Never expressed any ideas

Other comments:

Source: https://www.pinterest.com/pin/371969250449103194/

Rubric for Assessing Collaboration Fluency (Individual)

Criteria	Phase 1	aboration Fluency Phase 2	Phase 3	Phase 4
Criteria	(awareness, connection, remembering) (4 points)	(understanding, applying) (8 points)	(analyzing, evaluating) (12 points)	(evaluating, creating) (16 points)
Interacts with others to generate ideas and develop products	Listens to others' input and occasionally combines his or her own and peers' concepts to produce an understanding of the task, problem, or issue.	Frequently, listens to others' input and occasionally combines his or her own and peers' concepts to produce an understanding of the task, problem, or issue. Attempts to make sure team members contribute.	Listens to others' input and combines his or her own and peers' concepts to produce an understanding of the task, problem, or issue. Uses techniques to make sure team members contribute. Explains the task to the team members.	Listens to others' input and effectively combines his or her own and peers' concepts to produce an understanding of the task, problem, or issue. Uses suitable techniques to make sure all team members contribute. Uses effective probing questioning to develop a realistic understanding of the task.
Develops and impleme nts effective plans	Shows an awareness of the process and the current stage of development.	Uses checkpoints to measure progress in the project. Describes problems and develops some solutions.	Uses regular checkpoints to measure progress in the project. Defines each person's tasks within the process.	Manages progress on the assigned task using regular checkpoints. Clearly defines each person's roles and responsibilities within each element of the process. Discusses problems and develops suitable solutions.
Works collabor atively toward a common, shared goal or objective	Sometimes works with peers. Is sometimes on tasks when working collaboratively.	Works with peers collaboratively or individually to achieve the group's goal.	Works with peers collaboratively or individually to achieve the group's goal. Analyses individual or group progress against the goals and objectives and sometimes offers appropriate critique.	Works with peers collaboratively and economically or individually to achieve the group's goal. Analyses individual or group progress against the goals and objectives and offers appropriate critique or undertakes suitable actions as required.
Revisits, reflects and revises group process	Sometimes reflects on overall progress. Struggles to accept feedback.	Reflects on overall progress. Often accept feedback. Sometimes offer useful reflection.	Reflects on overall progress and analyses his or her performance. Accept feedback, sometimes modifies behaviour. Sometimes offer useful reflection.	Reflects on overall progress evaluating his or her contribution and that of peers fairly. Accept feedback, modifying tasks, action and behaviours based on this. Offers critical reflection that are task focussed and appropriate, enabling growth and development.

Source: Adapted from Crockett and Churches (2017)

Selected Response - Multiple Choice (Objective Test Item)

Multiple Choice is the most common type of objective test question (Linn & Miller, 2005). They are easy to administer and analyse. Multiple choice questions consist of a stem (question or statement) with several answer choices (distracters).

The table below gives four guidelines of developing multiple choice items with an example and a non-example. These have been borrowed from Classroom Assessment course (2018) at https://fcit.usf.edu/assessment/selected/response.html

Guideline One - All answer choices should be plausible and homogeneous.				
Example	Non-Example			
Read this question and select the appropriate option from the list:	Read this question and select the appropriate option from the list:			
1 Which is the largest animal in the world?A. ElephantB. Blue WhaleC. CamelD. Shark	1. Which is the largest animal in the world?A. CatB. DogC. LizardD. Blue Whale			
Guideline Two - Answer choices should be	be similar in length and grammatical form.			
Example (All are mammals, so students can easily find the right answer) Read this question and select the appropriate option from the list: Which animal is known as the 'Ship of the Desert?' A. Lion B. Cat C. Camel D. Dog	Non-Example Read this question and select the appropriate option from the list: Which animal is known as the 'Ship of the Desert?' (You can select any TWO options) A. Lion B. Camel C. Dog D. It drinks a lot of water to survive in the hot weather Bottom of Form			
Guideline Three - List answer choices in	a logical (alphabetical or numerical) order			
Example Read this question and select the appropriate option from the list:	Non-Example Read this sentence from the article:			

1. How many days do we have in a week?	1. How many days do we have in a week?	
A. NineB. SevenC. FiveD. Eight	E. SevenF. I don't knowG. 15H. Thirty-Two	
Guideline Four – Avoid usin	g "All of the Above" options	
Example	Non Example	
How was the Grand Canyon formed?	How was the Grand Canyon formed?	
A. The canyon once had a waterfall.	A. The wind eroded many of the rocks.	
B. Big rainstorms washed rocks out of	B. By the movement of large plates of	
the canyon.	rocks many years ago.	
C. A flowing river cut into the rocks to	C. A flowing river cut into the rocks to	
form the canyon.	form the canyon.	
	D A11 C.1 1	
D. The canyon was formed from rocks	D. All of the above.	
that came from other places.		
•	Bottom of Form	

In addition, a checklist for reviewing one-best MCQ is also given.

One-Best MCQ Review Checklist

#	Overall	Yes*	No*
1	Is appropriate for the level of the learner		
2	Is aligned to the Student Learning Outcome and its number is referenced		
3	Exam specification number is referenced		
4	Concepttobetestedisstatedappropriately/Itemisalignedwiththeconceptbeingassessed		
5	The item is conceptually correct		
6	The cognitive level of the item is identified appropriately		
7	The difficulty level of the item is identified appropriately		
8	Assesses an essential (Must Know) or an important (Good to Know) item		
9	Can be answered with the options covered (Cover Test)		
10	Cannot be answered with the stem/ case covered (Test for Cognitive Level)		
11	Item author's name is mentioned		
12	An authentic reference is mentioned		
13	There are no spelling or grammar mistakes		
14	Task can be completed by the students in the assigned time		
	Stem/ Case		
1	Clearly defined with no ambiguities		
2	Is contextual and relevant		
3	Contains all essential information, however, avoids irrelevant information		
4	Avoids abbreviations, uncommon terminologies and brand names		
	Lead-in		
1	Focuses on one feature or concept		
2	Avoids negative phrases such as 'Except' and 'Not'		
3	Is clearly understandable at the level of the students		
	Options		
1	Congruent with the lead-in		
2	Aligned with the lead-in in grammar		
3	Are of similar length		
4	Homogenous in content		
5	Distractors are plausible		
6	Listed in an alphabetical order		
7	Use generic and common terms		
8	Mutually exclusive (non-overlapping)		
9	Avoid phrases like 'all of the above' and 'none of the above'		
10	Avoid vague terms such as 'usually' and 'frequently'		
11	Avoids key terms from the stem or lead-in		
12	The key is clearly the best/ correct option for the level of the learners		
13	The key/ correct answer is identified		

Source: Aga Khan University Examination Board.

Constructed Response – Descriptive Questions (Subjective Test Item)

Constructed-response questions are assessment items that ask students to apply knowledge, skills, and critical thinking abilities to real-world, standards-driven performance tasks. Sometimes called "open-response" items, constructed-response questions are so named because there is often more than one way to correctly answer the question, and they require students to "construct" or develop their own answers without the benefit of any suggestions or choices. Therefore, constructed response assessments are suitable for higher level thinking skills. Constructed response assessments may include short quizzes, essays, art projects, personal communication etc.

Sample CRQ 01

Have you ever visited a village or a farm? If you have, then write about what you saw and what you liked there OR write about where you would like to go in the countryside and why.

Sample CRQ 02

Constructed-response items can be very simple, requiring students to answer with only a sentence or two, or quite complex, requiring students to read a prompt, reflect on the key points, and then develop a meaningful information of their own. Whether simple or complex, all constructed-response questions measure students' ability to apply, analyze, evaluate, and synthesize the knowledge that they have acquired in a more abstract way.

- 1. Name any two means of communication which you use the most to communicate with your family.
- 2. State any two disadvantages of over using the mobile phone.
- 3. How has the internet made our communication easier during the pandemic situation? Give any two examples.
- 4. Suppose a student from your class missed his online classes due to electricity breakdown. He has to complete his work. List down any two ways of communication you will use to help him complete his work.

Sample CRQ 03

Fairy Tale Conflict

Instructions: Fairy tales are loaded with conflict. You have Goldilocks breaking into the bears' house, the Big Bad Wolf frightening Red Riding Hood, and Cinderella being treated unfairly by her stepmother. Someone needs to help these characters resolve their conflicts in a healthier way! Choose a fairy tale to examine, and answer the following question

- 1. What is the conflict in the story?
- 2. How do the main characters feel about the conflict?
- 3. What does each of the characters want or need?

Then imagine you could convince the characters to work together to solve their problem. List three possible solutions that would benefit all of the characters. (Remember, we're talking about fairy tales, so you can be as creative as you want!)

Sample Test

Grade Five

Theme: Geography Topics: Globe and Map skills; Physical Regions of Pakistan

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Sample General Knowledge Test Paper

Grade III

Max I	Marks: 30]	Max Time: 2 Hours
Name	e:	Section:	Roll no:	Date:
Instru	ictions:			
	Read the paper carefully			
	Attempt all the questions			
Q.	1 Choose the correct answer	by circling the appro	opriate alphabet.	[05]
1.	If you stand facing the rising A. North B. South C. East D. West	Sun then which card	inal direction will	be to your left?
II.	Where is the world's second A. Khairpur B. Kharian C. Khewra D. Khushab	largest salt mine loca	ated?	
III.	Which of these is the habitat A. forest B. desert C. grass lands D. water	of a camel?		
IV.	Which of these animals do not A. goat B. frog C. cat D. lion	ot look like their pare	ents at the time of	birth?

V. Which matter is found in all three states – solid, liquid and g	/. V	Which matter	is found in a	all three states	 solid, liqu 	iid and gas
--	------	--------------	---------------	------------------	---------------------------------	-------------

- A. water
- B. milk
- C. tea
- D. honey

().2 Identify	the type	of pollution	shown in	each of	the three	nictures.
`	2.4 Iuchury	me type	ու իսուսուու	SHUWH III	cacii oi	me mice	pictuics.

[03]







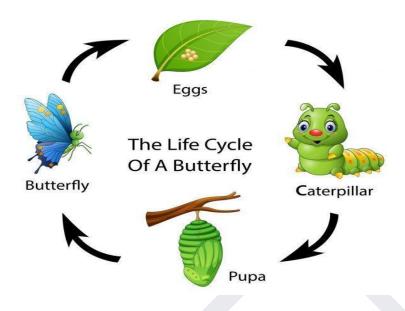
·	

Q.3 Complete the given chart.

[03]

Religion	Place of worship	Holy book
	Church	
Islam		
	Gurdwara	

Q.4 The picture below shows the life cycle of a butterfly. Please explain the life cycle in your own words. [04]



Q.5 Given below is the problem faced by Nina. Please read Nina's problem and give her two suggestions for solving her problem. [05]

Q.6 What do you mean by a "Balanced Diet?" Select any 5 food items, which can give you balanced diet, from the picture below. [5]



Q.7 In the space below, draw a map of your neighborhood showing position of your school/home.

[5]

Assessment Validity

The assessment must be valid, that is, it should actually measure what it is supposed to measure. There are three kinds of validity evidence considered during assessment. These are:

- Criterion
- Construct
- Content

Criterion and construct validity measures are beyond the scope of a class teacher's work. They should best be done by assessment experts. For the purposes of the purposeful assessment, content validity is extremely important and can be controlled by teachers.

Content Validity

As the name suggests, a valid assessment covers the content completed in the class. This means that a valid assessment covers all relevant parts of a subject. If any part, covered in the subject, is left out or if any irrelevant part, not covered, in the subject is included then it is not a valid assessment. The entire purpose of developing a list of codes and tables of specification and aligning them with the assessment strategies was to ensure content validity of the assessment. The assessment should be written at the level of difficulty required by the standards and student learning outcomes covered in the term. The assessment must also be in a format that allows students to demonstrate the particular ability being assessed. For example, if a teacher wishes to assess how a student has improved her writing abilities, then MCQ is not the best option.

Ways to Improve Content Validity

Clearly defined objectives. Student learning outcomes should be clearly defined and operationalised.

Alignment. Assessment measures must be matched with student learning outcomes.

Review by Subject Matter Experts (SMEs). Subject experts may be asked to rate each question on scale from very relevant/very essential to not relevant/not essential at all. The more SMEs agree that items are essential, the higher the content validity.

Objective Review. The test/assessment question/instrument can be reviewed by faculty at other schools to obtain feedback from an outside party who has not been involved in the instrument development.

Item Analysis. Item analysis is helpful in analyzing student responses to individual test/exam questions with the intention of evaluating test/exam quality.

Review and update tests frequently. Many tests that were valid two years ago, are not valid today. It is important to review and update or retire questions that are no longer relevant.

Item Bank. An item bank facility is important to manage and update questions.

CHAPTER FOUR

SUPPORTING RESPONSIVE TEACHING AND LEARNING THROUGH FEEDBACK

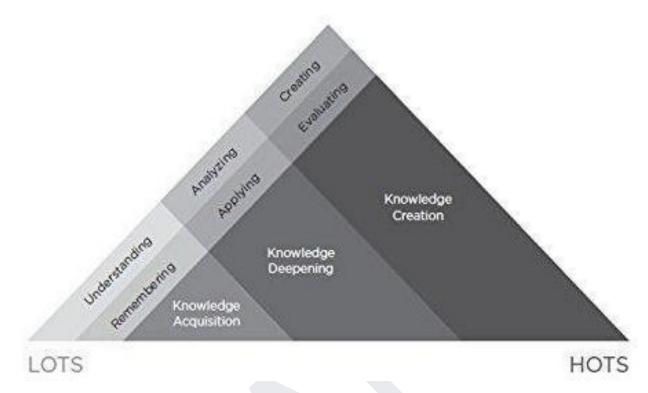
Chapter Four

Supporting Responsive Teaching and Learning through Feedback

Feedback to Students

In order to help students succeed in the 21st century world, teachers must see their teaching as a response to learning, rather than seeing learning as an outcome of teaching (Crockett & Churches, 2017). This calls for the integration of classroom assessment processes into teaching in ways that enhances students' achievement and their motivation to learn.

The formative feedback cycle helps learners to know where they are now in terms of high quality work and where they ought to be. This gap analysis facilitates learners' progression from Bloom's lower-order thinking skills (LOTS) which focuses on knowledge acquisition to higher-order thinking skills (HOTS) where the learners are able to create knowledge.



Source: Crockett & Churches (2017)

Hattie's (2012) findings from his meta-analysis of hundreds of education papers indicate that providing formative evaluation and feedback has some of the largest effects on student learning. For an assessment to be formative, student must be receptive to the feedback and use it to adjust their learning. "Without feedback, assessment is not a learning activity; it is a compliance task" (Crockett & Churches, 2017, p. 21).

Churches (nd) outlines five characteristics of high quality feedback. These are:

Timely: The end of the task is too late. Feedback must be provided often and in detail during the process.

Appropriate and reflective: Feedback must reflect the students' ability, maturity and age. It must be understandable.

Honest and supportive: Receiving a critique that identifies weaknesses of one's work can be very disheartening. The feedback must provide encouragement to continue and guidance on how to achieve the desired goals.

Focused on learning: The feedback should provide information which allows the learner to close the gap between the current and desired performance. The clarity and descriptive nature of the feedback the teacher presents are major influences on students' achievement (Hattie, 2012).

Enabling: Receiving feedback without the opportunity to act on it is frustrating, limiting, and counterproductive. Students must be able to learn from the formative assessments and apply the feedback and corrections.

One of the best models of feedback is developed by Dr. Jodie Nyquist (Crocket & Churches, 2017). This model of effective feedback has five stages going from weakest to strongest.





Criteria for Good and Bad Feedback

Good Feedback	Bad Feedback
 Being positive Even when criticizing, being constructive Making suggestions (not prescriptions or pronouncements) 	 Finding fault Describing what is wrong and offering no suggestions about what to do. Punishing or denigrating students for poor work

Examples of Good and Bad Feedback

Feedback	Good or Bad?
Your answer is the best one in the class.	This is an example of bad feedback. It does not tell the student what is good about the answer.
Your details strongly support your claim that we should recycle newspapers. That's great. Where did you find all those facts?	This is an example of good feedback. It confirms for the students that the work meets one of the targets (strong supporting details) and connects the success to students' effort (the student researched to find out facts, and the teacher noticed).
Your answer was the shortest in the class. You didn't put enough in it.	This is an example of bad feedback. It implies that the student is competing with others (as opposed to aiming for a learning target) and the reason the work is poor is that the student "did something bad." The student ends up feeling judged and not motivated to improve.
The answer probably would not convince a reader who did not already agree we should recycle. I would want to know more about the effects on the environment and the cost of recycling?	This is an example of good feedback for a student who the teacher believes does not know what is missing in his or her answer. It suggests what the student could do to improve the answer.
Your report is late. What is the matter with you?	This is an example of bad feedback. It may not inspire the student to complete his or her work and turn it in for assessment.
[Name], I do not have your answer sheet. Can you tell me what happened?	This is a better example than the previous one of feedback to deliver the message that the work is late.

Feedback to Parents

The most common form of communicating grades to parents is the report card. The report card at the primary level should also provide information on satisfactory or unsatisfactory performance in other dimensions.

A report card is only one way of sharing feedback to parents about their students' performance. Written report is another way of communicating with students. The reports should be written in a positive, direct and easy to understand manner.

The most effective way of communicating with parents is through a conference, generally known as parent-teacher meeting, which allows the parent to ask questions and the teachers to provide explanations. Conferences provide avenues to teachers to learn about students' home environment and to parents to be more involved in their children's learning.

(Front Page)

School's Name

School's Logo

Annual Report Card

[Month] 2022 - [Month] 2023

(First inside Leaflet)

Name: ABC		Term	One:_[D	oate]
Class <u>:</u>				
Rarely Sometimes Most of t	the times		lways	
Your child as a learner				
	•••		00	
Interested in learning				
Listens carefully				
Works well independently				
Keeps trying even when tasks are difficult				
Teacher's Comment:				

Your child's social and personal development			
		00	
Happy at school			
Behaves well in the class			
Mixes well with other children			
Behaves well in the playground			
Manages and expresses own feelings well			
Teacher's Comments:			

(Second inside Leaflet – Sample for Grade I)

	Key Themes	Child's Performance Term I Marks		Key Theme	Child's Performance			
				Term I Marks		Term II Marks		
		Formative	Summative	Total		Formative	Summative	Total
1	Discovering self and	28 Marks	19 Marks	47 M	Good and services	5 Marks	4Marks	9 M
	immediate environment							
2	Ethics and	16 Marks	10 Marks	26 M	Life	40 Marks	26 Marks	66 M

	values	0.14		46	sciences		4.5.4	0.11
3	Responsible citizenship	9 Marks	6 Marks	16 M	Physical science	5 Marks	4 Marks	9 M
4	Patriotism	7 Marks	5 Marks	12 M	Earth	10 Marks	6 Marks	16 M
	and				science			
	knowledge of the country							
	al Marks							
do	tained							
Out	t of Total	60 Marks	40 Marks	100		60 Marks	40 Marks	100
Ma		00 Warks	40 Warks	Marks		OO WICH	TO WILLIAM	Marks
Tea	cher's Commen	ts (Term I):						
		, ,						
Tos	show's Common	to /Town 11\.						
rea	cher's Commen	its (Term II):						
[Sa	me types of lea	aflets will be	developed f	or Grade	es II & IIII			
ĮDU	ine types of let	incis win oc	de veloped i	or Orauc	s n & m _j			
			(La	st inside l	_eaflet)			
	· · · · · · · · · · · · · · · · · · ·							
Ctro	dents Commen	t (My Lagra	ing in School)				
Siu	dents Commen	t (IVIY LearIII	ing in School)				

Parents' Comments (How can you further support your child's learning)							
Teacher's Overall Comment:							
Attendance	Punctuality						
Teachers' Signature:	Date:						
Principal's Signature:	Date:						
Parent's Signature:	Date:						

CHAPTER FIVE

POST ASSESSMENT: REDEFINED GOALS/CURRICULUM

Chapter Five

Post Assessment: Redefined Goals/Curriculum

Completing the Assessment Loop

This manual provides a framework of purposeful assessment. It brings forth the philosophy, the principles, the policy and the practice of purposeful assessment for evaluating teaching and learning targets at the classroom level, the school and national level. However, unless the evaluation is constructively utilised to inform changes to curriculum, learning targets and teaching methodology in a balanced manner, its real purpose will not be achieved.

Balanced Assessment System

The success of any assessment system will depend on how formative and summative assessments are balanced to meet the need of all stakeholders. The tables below summarize the use of the two types of assessments across three levels – the classroom, school and district/province.

Elements of a Balanced Assessment System

Elements of a Balanced Assessment System								
Level of Assessment	Purpose of Assessment	User of Information	Type of Assessment					
Classroom assessment	To measure the level of student achievement on learning targets taught. To diagnose student	Teacher Teacher	Summative: To determine grades for reporting purposes. Formative: To revise teaching plans for next year/semester. Formative: To plan further instruction.					
	strengths and areas needing further work.	student	Formative: To provide feedback to students. Formative: To self-assess and set goals for next steps.					
School based exam	To measure the level of student achievement on preset content standards.	Teacher School Leadership District Education Office	Summative: To evaluate the achievement level of each student and summarise across students. Summative: To determine programme or curriculum effectiveness. Formative: To identify programme or curriculum needs.					
District, provincial or national large scale assessments	To measure the level of student achievement toward content standards and/or international standards. To identify students and/or portions of the curriculum needing additional/different instruction.	Teacher School Leadership District Education Office	Summative: To evaluate programme effectiveness. Formative: to identify standards in need of more effective programmes. Formative: To plan interventions for groups or individuals.					

Source: Chappuis and Stiggins, 2017

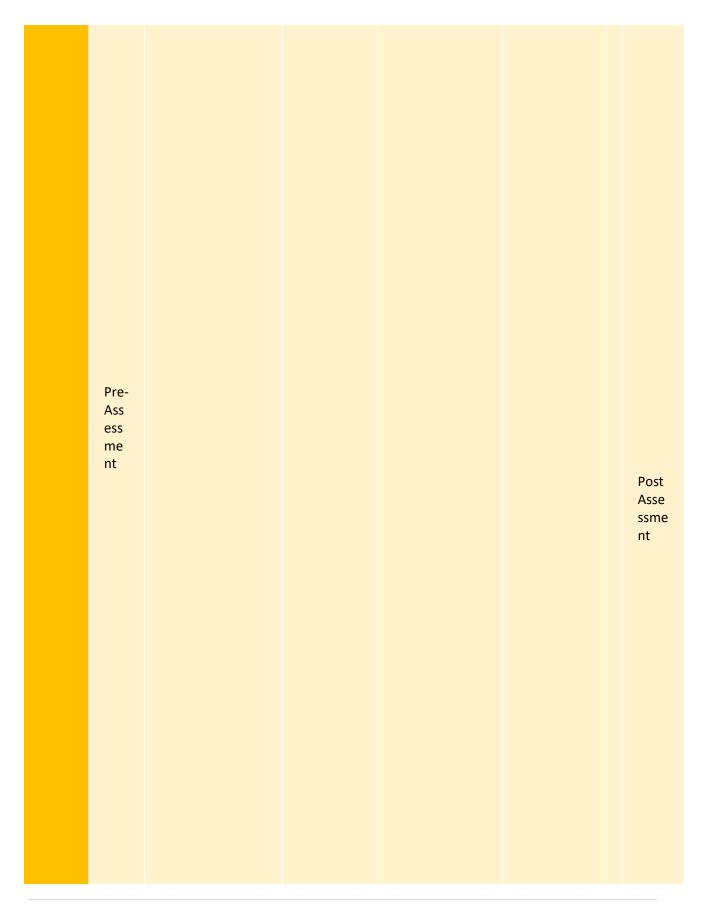
Implicit within this balanced assessment system is the cyclic approach to assessment, which emerges as a response to teaching and learning and further informs teaching and learning.

The following section presents schedules of assessment for grades I to V to illustrate how the three streams or levels of assessment can be employed in a balanced manner during an academic year. The schedule is also aligned with the SLOs.

Balanced Assessment Schedule for GK Grades I, II AND III

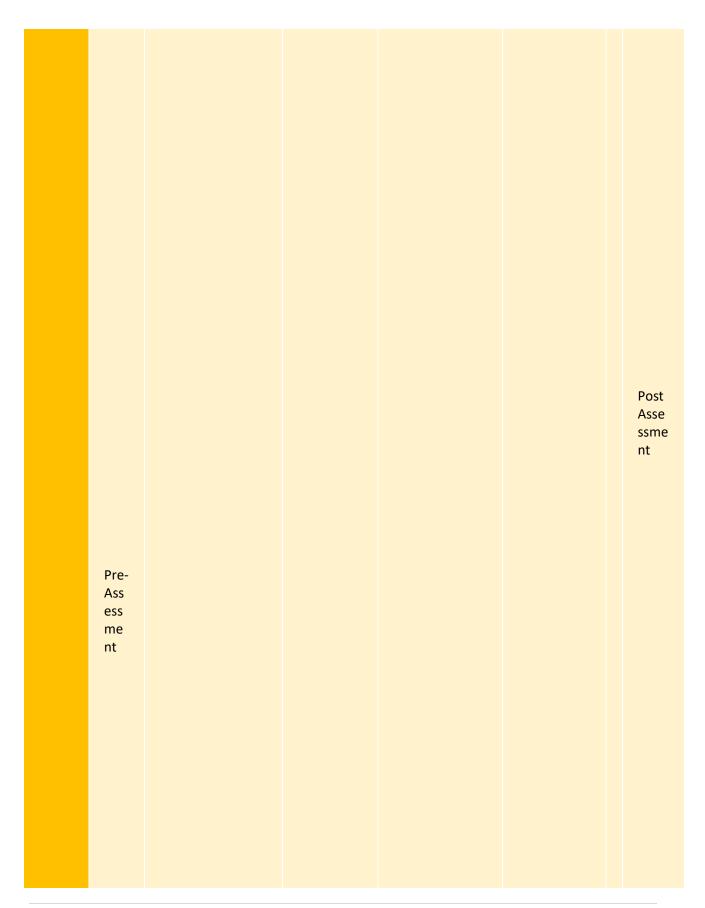
Overall Domain	Assessment Schedule							
Code*	One Mont h	Term I (4 Months)	One Month	Term II (4 Months)	One Month	One Month		
CRF CRC CRP CUF AR PP PS CUC CUP CAF CAC CAP CANF CANC CANP CANM CEC CEP CEM AV AO	Pre- Ass ess me nt	Formative Assessment (60% Marks based on Ongoing)	School based Summative Assessment (40% Marks)	Formative Assessment (40% Marks Based Ongoing)	School Base Summative Assessment 60% Marks) And/or Large scale assessments wherever required	Post Asse ssme nt - One Mon th After Term II		
						Post		

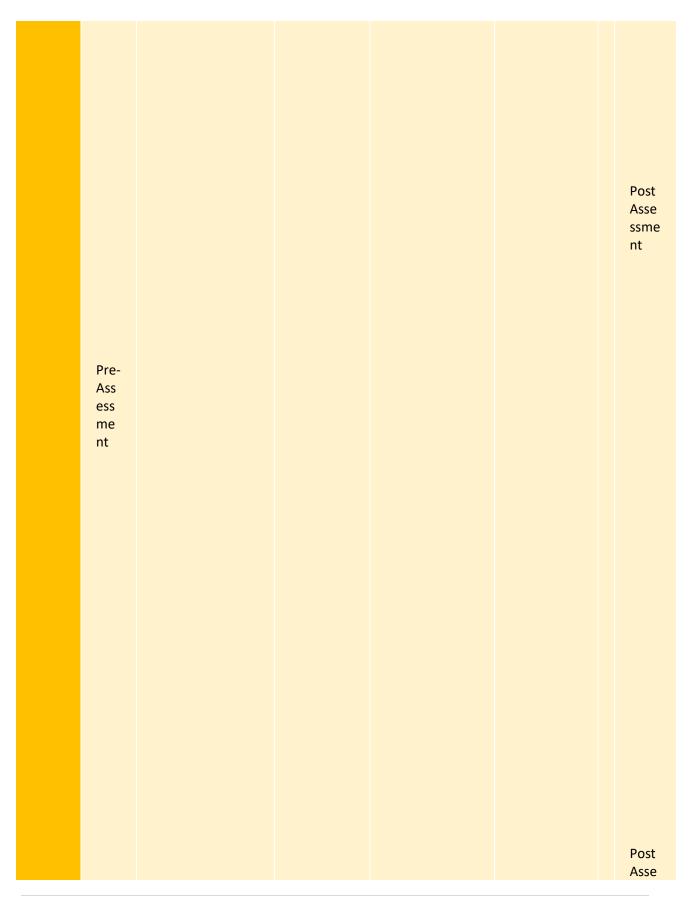
			Asse ssme nt
Pre- Ass ess me nt			Post Asse ssme nt



Pre- Ass ess me nt - One Mo nth Prio r to Ter m I			Post Asse ssme nt
Pre- Ass ess me nt			

Pre- Ass			Post Asse ssme nt
ess me nt			
Pre- Ass ess			Post Asse ssme nt
Ass			





Pre- Ass ess			ssme nt
ess me nt			

^{*} This includes all the SLOs contained within the Domain Code

Concluding Remarks – Exit to the Next Cycle

The framework can be considered a blueprint of an assessment programme at the primary school level. It provides the broad overview of policy guidelines for assessment framework 2021 while guiding the alignment of student learning outcomes with assessment strategies. It identifies the learning targets, the deep learning approaches and the strategies for assessing the same. In doing this, it ensures that the assessments are interconnected and purposeful.

While the blueprint is necessary as an overarching guide, its enactment will require professional judgement. Its real purpose will be realised when teachers use it at the classroom level to modify their teaching to match students' learning needs, when school leaders use it to accomplish their goals more effectively by replacing some programmes or practices with better ones (Fullan, 2001) and when the public education departments use it to invest in practices that yield positive results. The education practices, redefined in this manner, are again put to the test and the process of ongoing purposeful assessment continues.

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Appendices

${\bf Bloom's\ Revised\ Taxonomy\ Model-Cognitive\ Domain}$

Cognitive Dimension	The Knowledge Dimension				
	Factual The basic elements a student must know to be acquainted with a discipline or solve problems in it.	Conceptual The interrelationships among the basic elements within a larger structure that enable them to function together.	Procedural How to do something, methods of inquiry, and criteria for using skills, algorithms, techniques, and methods.	Metacognitive Knowledge of cognition in general as well as awareness and knowledge of one's own cognition	
Remember Recall or retrieve previous learned information from long- term memory	List primary and secondary colors.	Recognize action words.	Recall how to perform a sum based on four operations.	Identify strategies for retaining information	
Key Words (Verbs)	labels, lists, names, outlines, states	Defines, describes, identifies, knows,	Recalls, recognizes, matches,	reproduces, selects,.	
Sample Assessment	MCQs, Fill in the blanks, tables, rules,	Comprehension passage, CRQs, problem solving	Solving maths sums, using words in sentences, performing experiments, hands on activities	Retelling stories, word problems	
Understand Construct meaning from instructional messages, including oral, written and graphic communication.	Summarize features of a new product.	Explain the main ideas of a play or piece of literature.	Explain in one's own words the steps for performing a complex task.	Predict one's response to a performance.	

Key Words (Verbs)	Summarizing (abstracting, generalizing) Explaining (constructing models)	Classifying (categorizing, subsuming) Exemplifying (illustrating, instantiating)	Interpreting (clarifying, paraphrasing, representing, translating) Comparing (contrasting, mapping, matching)	Inferring (concluding, extrapolating, interpolating, predicting)
Sample Assessment	Write an essay	Group Work/Cooperative Learning	Project Work	Story telling
Apply Carry out or use a procedure in a given situation.	Respond to frequently asked questions.	Provide advice to juniors.	Divide one whole number by another whole number, both with multiple digits	Use techniques that match one's strengths. Use class rules in situations in which it is appropriate.
Key Words (Verbs)	Demonstrates, discovers,	Constructs, relates,	Computes, demonstrates, manipulates, operates, prepares, produces, solves	Changes, discovers, modifies, predicts, uses
Samples Assessment	Responds to questions	Match, complete sentences	Solves sums; role play	Create a blog
Analyze Breakmaterial into its constituent parts & determine how the parts relate to-one another and to an overall structure or purpose.	Select the most complete list of activities.	Distinguish between relevant and irrelevant numbers in a mathematical ward problem	Compare and contrast four ways of serving foods made with apples and examine which ones have the highest health benefits.	Determine the point of view of the author of an essay.
Key Words (Verbs)	Focusing, selecting	Differentiating (discriminating, distinguishing)	Organizing (finding, coherence, integrating, outlining, structuring)	Attributing (deconstructing)
Samples Assessment	Library search	Developing an argument; debating	Summarizing data in the form of graphs, pictures, tables etc.	Review of a written piece of work, oral discourse, story, movie etc.

Evaluate Make judgments based on criteria and standards.	Select the most complete list of activities.	Determine which kinds of apples are best for baking a pie, and why	Judge which of two methods is the best way to solve a given problem	Reflect on one's progress.
Key Words (Verbs)	Describes, explains	Checking (coordinating, detecting, monitoring, testing)	Interprets, justifies, relates, summarizes, supports	critiquing (judging)
Sample Assessment	Group discussion	Survey	Interpreting a graph, a picture etc.	Blogs; self-evaluation
Create Putelements together to form a coherent or functional whole; reorganize elements into a new pattern or structure	Generate a log of daily activities.	Compose a story	Design an efficient project workflow.	Inventing a product
Key Words (Verbs)	Compiles, explains, reorganizes, summarizes,	planning (designing)	producing (construct)	generating (hypothesizing)
Sample Assessment	Game; network with others	Write a story	Create a new model	Create a learning portfolio.

Bloom's Revised Taxonomy Model – Affective Domain

	Affective Domain				
Dimension	Examples	Key words/Verbs	Sample Assessment		
Receiving The lowest level. Awareness of feelings, emotions, ideas, material and phenomenon etc. Passively paying attention.	Demonstrates a willingness to participate in the activity	Asks, chooses, describes, follows, gives, holds, identifies, locates, names, points to, selects, replies, uses, acknowledge, attentive, courteous, dutiful, follows, listens, understands	Listening exercises; Listen for and remember the name of newly introduced people; watching a movie or another student's presentation, and then write a summary.		
Responding The student actively participates in the learning process, not only attends to a stimulus; the student also reacts in some way.	Shows interest in the objects, phenomena, or activity by seeking it out or pursuing it for pleasure.	answers, assists, aids, complies, conforms, discusses, greets, helps, labels, performs, tells, practices, presents, reads, recites, reports, selects, writes.	Completion of class tasks/homework; participation in class/group discussion; presentation; response to questions; compliance with class rules and certain procedures.		
Valuing The worth or value a person attaches to a particular object, phenomenon, or behaviour. This ranges from simple acceptance to the more complex state of commitment.	Simpler acceptance could be being part of the team; while more complex level of commitment may include being responsible for the overall improvement of the team.	appreciates, cherish, treasure, demonstrates, initiates, invites, joins, justifies, proposes, respect, sharesCompletes, differentiates, explains, follows, forms, initiates, invites, joins, justifies, proposes, reads, reports, selects, studies, works.	Write an opinion piece on any issue, explaining one's own stance and reasons supporting that stance; seeking out information in popular media related to a particular topic; proposing a plan to improve team skills.		
Organizing Organizes values into priorities by contrasting different values, resolving conflicts between them, and creating an unique value system. The emphasis is on comparing, relating, and	The student can put together different values, information, and ideas, and can accommodate them within his/her own schema; the student is comparing, relating and elaborating on what has been learned.	compares, relates, synthesizes, adheres, alters, arranges, combines, completes, defends, explains, formulates, generalizes, identifies, integrates, modifies, orders, organizes, prepares,	Explains the role of systematic planning in solving problems. Accepts ethical standards. Spending more time studying than playing sports; organizes and compares different cultures, evaluating the differences between them		

synthesizing values.			
Characterizing	Shows self-reliance when	acts, discriminates, displays,	Group work and group
Highest level. Internalizing	workinGgindependently; cooperates in	influences, modifies, performs,	project.
values. Student has a value	group activities (displays teamwork); uses	qualifies, questions, revises, serves,	
system that controls their	an objective approach in problem solving;	solves, verifies	
behavior. The behavior is	follows rules and regulations on daily		
pervasive, consistent,	basis.		
predictable.			

$Bloom's \ Revised \ Taxonomy \ Model-Psychomotor \ \ Domain$

	Affective Domain			
Dimension	Examples	Key words/Verbs	Sample Assessment	
Perception (awareness) The ability to use sensory cues to guide motor activity. This ranges from sensory stimulation, through cue selection, to translation.	Detects non-verbal communication cues. Estimate where a ball will land after it is thrown and then moving to the correct location to catch the ball.	chooses, describes, detects, differentiates, distinguishes, identifies, isolates, relates, selects.	A game of dodgeball; reading expressions.	
Set Readiness to act. Mental, physical, and emotional dispositions that make one respond in a certain way to a situation.	Knows and acts upon a sequence of steps in a process. Shows desire to learn a new process Attend project exhibition. Observe demonstrations through audio, videos, visuals. Set-up lab equipment for experiments.	Begins, displays, explains, moves, proceeds, reacts, shows, states, volunteers.	Pre-lab assessment; self-criteria; summary of demonstration and set-up process	
Guided Response The early stages in learning a complex skill that includes imitation and trial and error. Adequacy of performance is achieved by practicing.	Performs a mathematical equation as demonstrated. Follows instructions to build a model.	Copies, traces, follows, react, reproduce, responds.	Evaluate accuracy with criteria on standard performance. Run for 25 minutes steadily. Determine the density of a group of sample metals with regular and irregular shapes.	
Mechanism (basic proficiency) This is the intermediate stage in	Use a personal computer. Repair a toy. Drive a bicycle.	Assembles, calibrates, constructs, dismantles, displays, fastens, fixes,	Performance test (performance indicators). Self-evaluation on	

learning a complex skill. Learned responses have become habitual and the movements can be performed with some confidence & proficiency.	Holding a pencil	grinds, heats, manipulates, measures, mends, mixes, organizes, sketches.	performance (based on progress and confidence) Performance in a game (football, hockey). Solving a problem, using pre-set procedures
Complex Overt Response Performs task or objective in a confident, proficient, and habitual manne	Control and use correct movements when playing instruments; drawing with pencil and painting proficiently. Operate and run machines (e.g. computer) efficiently Use equipment with confidence	Assembles, builds, calibrates, constructs, dismantles, displays, fastens, fixes, grinds, heats, manipulates, measures, mends, mixes, organizes, sketches. NOTE: The Key Words are the same as Mechanism, but will have adverbs or adjectives that indicate that the performance is quicker, better, more accurate, etc.	Clinical exams Final project (ex. Create project exhibition) Performance in a role play.
Adaptation Skills are well developed and the individual can modify movement patterns to fit special requirements.	Use tools for situations outside typical discipline Responds effectively to unexpected experiences. Modifies instruction to meet the needs of the learners.	Adapts, alters, changes, rearranges, reorganizes, revises, varies.	Field based tasks. Revise and improve procedures of movements; written responses Portfolio
Origination Creating new movement patterns to fit a particular situation or specific problem. Learning outcomes emphasize creativity based upon highly developed skills.	Constructs a new theory/story. Develops a new teamwork approach. Creates a new project; a new programme	Arranges, builds, combines, composes, constructs, creates, designs, initiate, makes, originates.	Story writing; project work; models; work plans;



Curriculum Mapping

NATIONAL CURRICULUM OF PAKISTAN

General Knowledge - Grade I

COGNITIVE DOMAIN

	Low C	Order Taxonomie	s (Cog	nitive)			High	Order Taxor	nomies	(Cognitive)	
Remember	No	Understand	No	Apply	No	Analyze	No	Evaluate	No	Create	No	Total
		Discover	ing Se	lf and Immedia	te Envii	ronment						
Identify some family members (parents, brothers and sisters, grandparents, aunts, uncles and cousins (paternal and	1	Recognise and explain that individuals have different needs and qualities, and different likes and dislikes. (C)	1			Identify good qualities in themselves and others (telling the truth; respecting elders and listening to	1	Describe themselv es briefly. For example, their name, age, likes,	1			4
maternal). (F) Tell the name	1	Recognise that they should respect	1			their advice; getting up early in the morning		games, favorite food, what				3
and location of their school (F)	1	all family members and friends. (p)	1			etc.) (M) Analyze and		they want to be when				
Describe the activities they engage in at	1	Share and understand the rules they				describe the ways in which they are same as	1	they grow up, etc.(M)				2

Narrate the special qualities of some of their friends(C)	1	follow in class and school(F) Recognize that they should respect everyone. (P)	1	and different from others with respect to likes and dislikes.(p)	2
Total Frequency	5		4	2 1	11
				Ethics and Values	
Greet others by saying Assalam o Alaikum, Hello, Good Morning etc.(f)	1	Recognise and identify the etiquettes of using the washroom. (P) Recognize the importance of following rules. (P)	1	Demonstrate 1 aspects of good character (pu nctuality, speaking politely, kindness, caring, honesty and truthfulness) (P) Demonstrate etiquettes of eating (don't waste food, 1 eat with	2

Total Frequency	1	2	clean hands, don't drop food around)(P)	2	5
			Responsible	e Citizenship	
Name the games they like to play. (F)	1	Observe and identify the rules when playing a game. (P) Describe the importance of playing games 1 and exercise for better health for	Demonstrate the importance of collaboration by participating in group activities and games. (P)		1
		girls, boys, and differently abled groups. (C)	the importance of following rules.(P)	1	1
Total Frequency	1	2	7	2	5
		Patric	otism and Knowle	ledge of the Country	
Tell the full name of our	1				1

country and date of formation(F) Recognise that all the 1 1 countries have a flag Draw the flag of Pakistan.(F) 1 1 3 Total 3 Frequency **Goods and Services** Identify the Differentiate 1 2 between slow & means of 1 fast means of transportatio transportation. n which (C) people use. (C) Identify the places where buses and trains stop, 1 1 airplanes land and ships berth. (c)

Describe the activities that take place at a bus stop, railway station, airport, and harbor.(c) Total Frequency	1 3		1		Life Sc	ciences		1
Name and		Recognise the	1	Relate their	1	Differentiate	1	4
identify e.g. through	1	fact that germs can		body parts with the five		between healthy and		
labelling)		cause diseases		senses		unhealthy		
major parts of the human		and list the ways to avoid		(which body part helps		food with examples,		
body (eyes,		germs. (C)		them to		and state the hazards		
nose, ears, mouth, arms,				taste, touch, smell, hear		of eating		
feet, hands and legs). (F)				and see).(C)		unhealthy food.(p).		
Identify the functions of various body parts. (C)	1	Discuss the importance of keeping their school clean.(C)	1	Apply different ways to keep themselves clean (washing	1	Differentiate between the plants around them based on their		3

Name the five senses. (F) Match the sensory	1	Understand that living things need air, water, and food. (C)		hands before and after meals and after using the toilet, clipping/trim ming nails,		characteristi cs(C) Extend their knowledge to analyze different			1
descriptions of each of the five senses (P) Recognise that some	1	Recognise the importance of plants/ trees as a source of food, shade, oxygen, and	1	brushing teeth daily, taking bath regularly etc.) (p)		scenarios like 'if you were given a wild animal to keep as a pet, what steps would you take for your own safety and	1		3
people don't have all the body parts and senses and they are	1	shelter. (C)	1	e measures for better care of plants(P)	1	the care of the animal?'(P)	1		4
also valuable members of the society. (C)		Recognize the importance of animals as a source of				Differentiat e between animals that can and			
Recognise the importance of keeping themselves,		food, joy, and transport. (C)				cannot be kept at home, with reasons. (C)			

their clothes and surroundings clean for their health. (p)	1	Recognize measures for better care of domestic and wild animals	1	2
Identify the unhealthy habits that cause illnesses (like cough and diarrhea etc.) (C)		and plants.(p)		
	1		1	
Recognise living and non-living things around	1			3
them in nature. (C)				1
Identify plants in their environment. (C)	1			
Identify the things around them that are	1			1

made up of plants/ trees. (C)		1
Identify some common domestic and wild animals. (C)	1	1
Identify the food which different animals eat.(C) Identify places where animals are	1	1
found (desert, jungle, water, mountains etc.) (c)	1	1
Identify the differences between common, domestic and wild animals	1	1

in terms of physical features Total 3 14 6 4 27 Frequency **Physical Sciences** Identify what 1 Show that an 1 2 makes object moves objects when we move.(C) push it or pull it (F) Recognise from pictures Understand of the past and explore 1 that force how push 2 applied by action moves 1 humans and things away animals from us moved while a pull vehicles action brings things closer (Tonga, bullock cart, to us(C) cycle, pushcart) while today vehicles are moved by machines (bus, motorcycle and car etc.)

Total Frequency	2			2			4
			Earth and Space So	cience			
Identify Earth as a planet. (C) Recognise the shape of the Earth(C)	1	Recognize that the Earth is covered with land and water. (C)	1				2
Identify celestial objects in the sky during	1	Recognise the concept of planets(C)	1				2
day and night. (C) Recognise that the moon and stars shine at night.(C)	1	Recognise that the sun shines very brightly during the day and gives us heat and light.(C)	1				1
Total Frequency	4		3				7
Overall Total	32		18	9	6	1	66



AFFECTIVE DOMAIN

		From	Lower (Order Taxonomies to H	ligher O	rder Taxonom	ies			
Receiving	No	Responding	No	Valuing	No	Organizing	No	Characterizing	No of Times	Total
			Discov	vering Self and Immedi	ate Env	vironment				
Describe themselves briefly. For example, their name, age, likes, games, favorite food, what they want to be when they grow up, etc.(R)	1			Identify good qualities in themselves and others (telling the truth; respecting elders and listening to their advice; getting up early in the morning etc.) (V) Recognize and explain that individuals have different needs and qualities, and	1	Analyze and describe the ways in which they are same as and different from others with respect to likes and dislikes.	1			1
				different likes and dislikes.						
Total Frequency	1				2		1			4
				ETHICS AND	VALUE	S				
				Demonstrate aspects of good character (punctuality , speaking politely, kindness, caring, honesty and	1					1

Total						truthfulness) Demonstrate etiquettes of (don't waste to with clean ha don't drop for around)	eating food, eat nds,	t 1						1 2
Frequency														
							LIFE SCI	ENCES						
						Recognise that people don't the body part senses and the also valuable members of the society.	have all s and ey are	1						1
Total						,		1						1
Frequency														
Overall Total		1						5		1				7
PSYCHOMOTO	OR I	DOI	/IAIN											
From Low Ord	ler	Тахо	onomi	ies to High	Order 1	Taxonomies Taxonomies								
Perception	No	S	N	Guided	No	Mechanis	No	Comple	No	Adaptati	No	Originatio	No	Tota
		e	0	Respon	of	m	of	x Overt	of	on	of	n	of	1
		t		se	Time		Time	Respon	Time		Time		Time	
					S		S	se	S		S		S	
						Patriotism a	nd Knov	wledge of t	the Cou	ntry				
Draw the flag of Pakistan.	1													1

(F)

Total 1

Frequency

Overall 1

Total

NATIONAL CURRICULUM OF PAKISTAN

General Knowledge - Grade II

CURRICULUM MAPPING

COGNITIVE DOMAIN

	Low	Order Taxonomie	s (Cogn	itive)			Hig	h Order Taxoı	nomies	(Cognitive)		
Remember	No	Understand	No	Apply	No	Analyze	No	Evaluate	No	Create	No	Total
		Discov	ering Se	elf and Immediate	e Enviro	nment						
Recognise that the people of Pakistan live in different types of areas (villages, cities, towns, and kachi abadis). (c) Identify some common professions and occupations in	1	Recognise that people from different areas, religions, and cultures can be friends(c)	1	Research (through oral investigation) about different professions that exist in Pakistan. (P)	1	Differenti ate between lifestyles of people living in different areas (villages, cities, towns, an d kachi abadis).(C	1					1

Pakistan (farmer, butcher, cobbler, teacher etc.) (c)	1								
Identify key characteristics of different types of areas (buildings, facilities, environment and the work									1
people do) (C)	1								
Total Frequency	3		1		1	· ·	1		6
				hics and Va					
List the things they can share with others (toys, books, stationery items, lunch with friends etc.) (F)	1	Recognise the importance of sharing things. (C)	exa fro dai wa pe	late with amples om their ily life the lys in which ople are erdepende (C)	1	Differenti ate between fair and unfair behavior in daily live(C)	1		4
Identify from given pictures and stories the ways in which	1	Recognise that mistakes		monstrate ys in which	1				3

people help each other (at home, in classroom, in village/city, at the time of any need or disaster) (C) Identify that all human beings are similar, but differ by		are a natural outcome of learning and nothing to be ashamed about or to make fun of. (C)		they can show respect for all. (F) Accept responsibility for treating others unfairly and manage their behavior accordingly. (C)		
religion, family, culture, abilities, ethnicity(C)	1	Recognise that when people apologize for their mistake they should forgive them.(C)	1	Mend their behaviour when it is proven unfair	1	3
Identify occasions when it is important to wait for one's turn. For example, while				through realization.(M)		
speaking, in the school, on the bus stop, at canteen and ticketing counters	1	Recognise what they say and do, can hurt others, and what			1	3

etc.(C) Identify ways in which we can redress the hurt caused to others (ask for forgiveness, say sorry, do something special for them etc.) (C)	1	others do and say, can hurt them (telling lies, making fun of others, pushing others, bullying using derogatory words etc.)(C)					1
Identify ways of making unfair situations fair. (C)							1
	1						
Total Frequency	6	4		4	1		15
			Responsible	Citizenship			
Identify some traffic rules. (C)	1	Recognize the 1 role of government and identify some goods	Inquire about places of worship of major religions in	1		Reflect on 1 their responsibi lities towards	4

Identify the safety rules they should follow while walking on the road, crossing a road, traveling by a bus etc.(C)	1	and services that the government provides for the people (health, education, clean water, infrastructure, utilities, safety and security, parks and playgrounds etc.). (C)		Pakistan (masjid, church, Gurdwara, temple). (C) Practice respect for all places of worship and all religions.(C)	1	the natural world.(M)	2
Recognise the multiple religions in Pakistan.(C)	1	Recognise that everyone has a right to practice their own religion freely. (C)	1				2
List any three rights of the citizens (right to food, free education, protection, equality and health care).(F)	1	Discuss careful use of food, water and other resources, regularity and hard work towards education,	1				2
in their neighborhood as a place of	1	taking care of surroundings and hygiene,					1

treating
everyone
equally, and
following rules
and
regulations(C)

Total Frequency	5	\$	3	2	1	11					
	Patriotism and Knowledge of the Country										
Recognise the map of Pakistan. (C)	1	Recognise the significance of the national flag. (C)	Depict the cultural diversity of all provinces and areas of Pakistan(C)	1		3					
Name the provinces and areas (AJK, GB and ICT) of Pakistan. (F)	1					1					
Identify the national capital of Pakistan(C)	1					1					

Recognise some of the national symbols of Pakistan such as the national animal, fruit, flower, bird, and sport (C)	1	1	
Identify what the colors and symbols on the flag represent. (C)	1	1	
Identify festivals celebrated by Muslims in Pakistan and describe how they are celebrated. (C)	1	1	
Identify festivals of other major religions and cultures in Pakistan and describe how they are	1	1	

celebrated. (C)

Recognise and draw the flag of AJK.()

1

Total Frequency	8		1	1	10
				Goods and Services	
Identify some professions from pictures (teaching, business, farming, medicine etc.). (C)	1	State which profession they like the most and why. (C)	1		2
Recognise the		Recognise that			
role of some common professions in	1	people process the crops they	1		2

1

their daily grow for lives(C) making products Recognise (cotton to professional thread to achievements cloth to 2 of celebrated garments) **Pakistanis** (C) including women/ Discuss the minority importance of 1 groups/ livestock.(C) differently abled groups. (C) List the major agricultural crops and livestock in Pakistan (F) 1 Total 7 3 4 Frequency **Life Sciences** Identify major Highlight the 1 2 parts of a plant 1 importance of (root, stem, plants for a

leaf and flower). (C)		clean environment. (C)		
List the functions of root, stem, leaf and flower. (F)	1	Recognise the animals that live on land (including birds) are different in features from those that live in water. (C)	1	2
Identify different shapes of leaves found around them(C)	1	Describe and compare how the offspring of different animals grow	1	2
Identify the roots, stems, flowers, leaves which are eaten by people. (C)	1	into adults, including humans, birds, frogs and butterflies.(P)		1
Identify the fruits which have seeds in them.(C)	1			1

some plants grow from seeds while 1 1 others grow from stems or roots(C) Identify that soil, light, air and water are needed to grow a plant(C) 1 1 Recognise that plants make their own food in the presence of sunlight. (C) 1 1 List the animals they see in their surroundings (land and water). (F) Recognise different animals and their young ones. For example, horse 1 and foal, cat

and kitten, dog and puppy, hen and chick, frogs and tadpoles, butterflies and caterpillars etc.(C)	1						1
Name different places where animals live (nest, den, barrow etc.) (F) Total Frequency	11		3	Physical Sciences			14
Recognise some common materials such as wood, plastic, metal, glass, rock, paper and fabric. (C)	1	Group sources of light and heat into natural and human made. (C)	1	Thysical Sciences	Differenti ate between the natural and man- made materials. (C)	1	3
Identify the materials used in some of the objects around them. (C)	1	Describe methods of producing heat (burning and rubbing etc.) (C)	1		Explore properties of materials with respect to color,	1	3

sources of heat and light in their homes, schools and surroundings. (C)	1	Observe and describe how motion of an object can be changed by applying force	1	hardness, texture, sink/ floats. (C)	2
List the uses of heat and light. (F)		(speed up, slow down, stop, change direction etc.) (P)		Explore properties of materials	2
Recognise that the intensity of heat and light is felt more as they come nearer to the	1			with respect to elastic/no n-elastic, magnetic/ non-	
source. (C)	1			magnetic. (C)	1
Recognise that push & pull moves things fast or slow, (push and pull as a force) (C)	1				1
Recognise that greater the force, the greater the change in the motion of an	1				

Total Frequency	7		3				3		13
				Eartl	h and Spa	ce Science			
Identify the natural sources of water around themselves. (C)	1	Recognise that the planet Earth is a source of all materials we use, and many useful materials and resources come from it. (C)	1	Suggest ways to save water(C)	1				3
Recognise that some areas of Pakistan experience shortage of water. (C)	1	Recognise that natural resources are essential for survival of human beings (land, forests/plants, water, air, Sun etc.(C)	1						2
ways in which human beings waste water. (C)	1	Recognise that people manufacture different things from natural	1						2

ldentify the ways in which		resources to serve human needs. (C)					
the land is destroyed due to human activity		Recognise the importance of water resources.					
(deforestation). (C)	1		1				2
Total Frequency	4		4	1			9
Overall Total	48		22	9	5	1	85

AFFECTIVE DOMAIN

	From Lower Order Taxonomies to Higher Order Taxonomies									
Receiving	No of Times	Resp ondin g	No of Times	Valuing	No of Times	Organising	No of Times	Characterizing	No of Times	Total
Discovering Self and Immediate Environment										

Total Frequency

Ethics and Values

Recognise what Demonstrat 1 Accept 1 3 they say and do, responsibility e ways in can hurt others, which they for treating and what others can show others unfairly do and say, can respect for and manage hurt them (telling all. (V) their behavior lies, making fun of accordingly. (C) others, pushing others, bullying using derogatory words etc.) (R) Recognise that when people apologize for their mistake they should forgive Mend their them.(R) behaviour when it is 1 2 Identify occasions 1 proven unfair when it is through realization.(C) important to wait for one's turn. For example, while speaking, in the school, on the bus stop, at canteen and ticketing counters etc.(C **Total Frequency** 2 2 1 5 **Responsible Citizenship**

Practice 2 1 1 List any three respect for rights of the all places of worship and citizens (right to food, free all religions.(v) education, protection, equality and health care).(F) Identify masjid in their 1 neighborhood as a place of worship for Muslims.(C) Total 2 1 2 3 Overall Total 9 5 2

PSYCHOMOTOR DOMAIN

From Low Order Taxonomies to High Order Taxonomies														
Perceptio	No of	Se	No	Guided	No of	Mechanis	No of	Complex	No of	Adaptatio	No of	Originatio	No of	Tota
n	Times	t	of	Respons	Time	m	Time	Overt	Time	n	Time	n	Time	1
			time	е	s		S	Respons	s		S		S	
			S					е						
Patriotism and Knowledge of the Country														

Recognis e and draw the flag of AJK. Total 1
Frequenc
y
Overall 1
Total

1

NATIONAL CURRICULUM OF PAKISTAN

General Knowledge - Grade III

CURRICULUM MAPPING

COGNITIVE DOMAIN

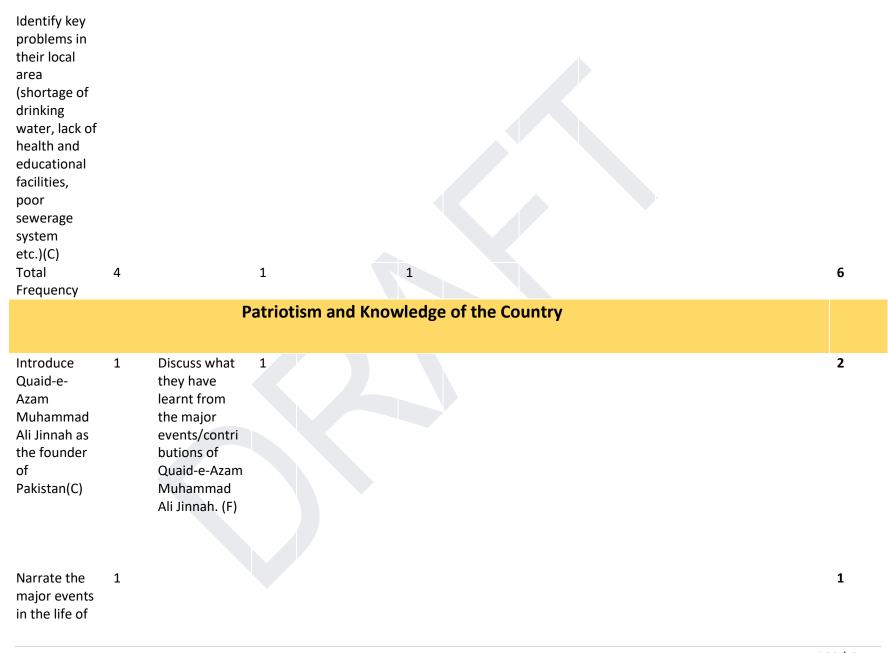
	High Order Taxonomies (Cognitive)											
Remember	No of time s	Understand	No of time s	Apply	No of time s	Analyze	No of times	Evaluate	No of time s	Create	No of times	Total
		Disc	overing	Self and Immed	iate Env	rironment						
Identify how schools, communities, and transportation have changed over time (from the given pictures) (C)	1	Recognise that present time is different from the past in terms of living style, food, communicatio n, clothes etc.(C)	1	Practice safety measures while using electrical appliances(P)	1							3
Sequence events in a narrative in chronological order. (P)	1	Recognise the need for personal safety(C)	1									2

schools, Explain the 1 2 communities, risk and and danger associated transportatio n have with the use changed over of electric time (from appliances/ the given sharp objects/ pictures). (C) fire/ strangers, water bodies and animals. (C) Identify some natural 1 1 2 Express disasters and ways to stay feelings of safe. (C) discomfort, confusion, fear, and danger to their parents/ teachers/ guardians to stay safe from any unexpected situation. (C) List the 1 various 1 hazards they can face at

home (bare
wires,
damaged
roof, broken
glass, fire,
scissor etc.)
(F)

Total Frequency	5	4	1			10
			Ethics and Values			
Identify feelings of people in different conflicting situations. (C)	1	Recognise 1 some disagreement s/conflicts that occur at home, in school and in the local community.(C	Explore the ways in which people resolve conflicts/ disagreement s at home and school. (P)			3
Identify reasons for disagreement s with friends and family members. (C)	1		Apply 1 discussion and problem- solving methods to work out disagreement. (P)			2
Total Frequency	2	1	2			5
			Responsible Citizens	ship		
			•			

Recognise Describe the 3 1 Suggest ways that people activities that the are members individuals government of a local perform for and people the welfare of community(C can work together to the community(C) meet people's Recognise 1 needs in the 1 that area.(C) communities meet people's needs(C) 1 1 **Identify** ways they can demonstrate good citizenship (playing fairly, helping others, following rules, taking responsibility for one's actions, sense of ownership of public goods).(C) 1 1



Quaid-e
Azam
Muhammad
Ali Jinnah
(date of
birth,
founder of
Pakistan, few
major
contributions
, and the
date when he
died). (C)

1

Introduce Mohtarma Fatima Jinnah as a key figure in the formation of

Pakistan(F) 1

Narrate the major events in the life of Allama Muhammad Iqbal (date of birth, national poet, some famous

poems for



children, and the date when he died).(c) 1 1 Introduce Allama Muhammad Iqbal as a personality who expounded the idea of Pakistan.(c) Total 5 1 6 Frequency **Goods and Services** Define the 1 1 term "resources". (C) State types of resources: 1 1 natural resources, human resources and capital resources. (F) Identify natural 1 1 resources (plants,

animals, water, air, land, forests and soil), human resources (farmers, builders, painters etc.), capital resources (trucks, computers, factory buildings etc.).(C) Define the 1 terms: goods, 1 services, buyers and sellers. (C) 1 Identify the main goods 1 and services of their local area. (C) Describe the need for 1 1 interdepende nce as not all goods and

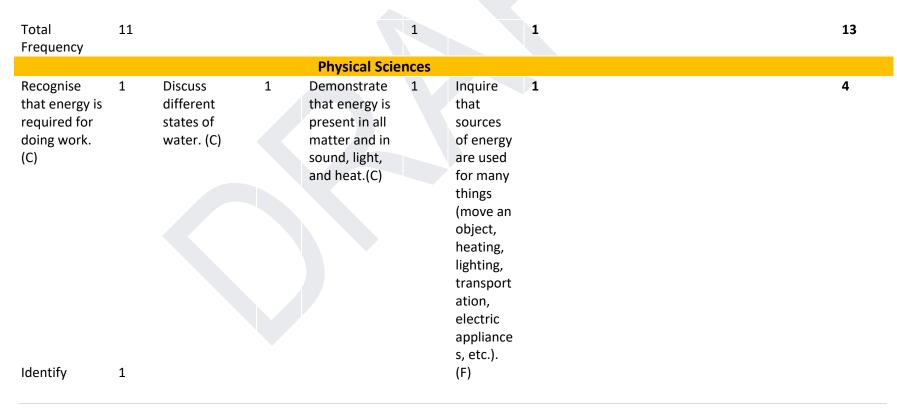
services are available in their area. (C) Describe scarcity and recognise that people 1 1 make economic choices because goods and services are limited. (C) Total 7 7 Frequency Life Sciences Recognise Research and 1 Compare 1 3 that healthy 1 suggest the different living ways in which stages of requires habitats can lifespan eating a be protected. of plants balanced diet, and keeping animals clean, (from sleeping well, pictures, and through exercising observati regularly, on / video

drinking

etc.)(C) clean water, brushing teeth) (C) Identify certain food groups as 1 1 fruits, vegetables, grains, dairy product, eggs, meat and dry fruit and their relative proportions. (C) Recognise that certain diseases are 1 infectious, 1 and vaccinations can help prevent such diseases. (C) Describe how good hygiene and healthy 1 1 habits can control the spread of diseases. (C)

Recognise people who use science in their local area e.g., 1 1 everyday use of science, restaurant chefs, dietitians, food manufacturer s, dairy farmers. (P) Recognize the term 'habitat'. (c) Recognise the type of 1 1 habitats for living things (polar, desert, forest, aquatic). (C) 1 Name plants and animals that live in each of these different habitats. (F)

Identify the 1 environmenta 1 1 factors (temperature, light, water) that support life in a habitat. (C) Identify the ways in which human 1 activities affect natural habitats. (C) Identify the changes in the lifespan of an animal and a plant. (P) 1 1 1 1



natural 2 sources of Explore 1 energy (sun, constructi on of wood, simple flowing water, wind, circuit(C) coal, oil, gas). (C) Identify 1 1 materials as either solids, liquids or gases. (C) Recognise 1 basic 1 differences between states of matter(C) 1 1 Identify how we use electricity and safety measures(C) 1 Recognise 1 the basic components of a simple circuit: cells, wires, and bulb(C)

Total Frequency	6		1		1		2		10		
Earth and Space Science											
Recognise that heat and light of the Sun helps to sustain life on Earth which is the only known planet where life exists. (C)	1	Explain that our solar system is made of a large star and eight planets. (C)	1	Suggest ways to reduce pollution (3 r's) (F)	1	Explain how the rotation of the Earth causes day and night(C)	1		4		
Identify that on Earth, the direction of sunrise is 'East' and the direction of sunset is 'West'. (C)	1	Predict what would happen if natural resources were all used up.(M)	1	Suggest ways to protect the endangered animals. (C)	1				3		
Identify South and North with respect to East and	1								1		

West, namely, South and North. (C) 1 1 Name the eight planets of solar system(F) Name places towards 1 North, South, East, and West of the school/home . (F) Describe the 1 formation of shadows(C) Recognize that the size 1 1 and direction of the shadow can be used to estimate (guess) time(C) 1 1

Define the term pollution(C) 1 List different 1 types of pollution (land, water, air, noise). (F) Identify the 1 endangered animals of Pakistan (Indus dolphin, markhor, blackbuck etc.). (C) Identify 1 animals, 1 which are extinct (dinosaurs, etc.) (C) Total 2 16 11 2 1 Frequency 72 Overall Total 50 10 8 4

AFFECTIVE DOMAIN

Receiving	No of Times	Responding	No of Times	Valuing	No of Times	Organising	No of Times	Characterizing	No of Times	Total
Identify feelings of people in different conflicting situations. ()				Express feelings of discomfort, confusion, fear, and danger to their parents/ teachers/ guardians to stay safe from any unexpected situation.(V)						1
Total Frequency	1			1						2
Overall Total	1				1					2