GOVERNMENT OF GILGIT-BALTISTAN
BOARD OF ELEMENTARY EXAMINATION
GILGIT–BALTISTAN
No. BEEGB (G)-2(1) Exam (Secrecy)/2025
Gilgit, the 16th March, 2026

To,

The Deputy Director Education, Gilgit, Ghizer,Hunza,Nager , Diamer,Astore, Skardu,Ghanche,Shiger & Kharmang

Subject: **REQUEST FOR DISSEMINATION AND IMPLEMENTATION OF SYLLABUS BREAK UP DOCUMENTS FROM GRADE 6 TO 8 FOR THE ACADEMIC SESSSION 2026**

As per past practice the BEEGB academic team in collaboration with CPLICs and the subject experts of SEDGB Baltistan and Gilgit Division has prepared syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Considering the suggestions of the stakeholders of SEDGB the documents for this academic session will be disseminated class-wise, subject-wise and zone -wise separately to make them easily accessible for all stakeholders instead of sending all documents in a single file which becomes very bulky and cannot be downloaded easily.

In this regard, all the respected DDEs are requested to distribute the said documents among all stakeholders and ensure proper implementation in true letter and spirit please.

(Abdul Hamid)
Controller Board of Elementary Examination Gilgit- Baltistan
Phone #: 05811-940888

Copy for Information to:

1. The Secretary SEDGB
2. The DG SEDGB
3. The Divisional Director Gilgit, Baltistan and Diamer- Astore
4. The Divisional Assistant Controllers BEEGB for Gilgit,Baltistan and Diamer-Astore

ACKNOWLEDGEMENT

The BEEGB Academic team extends its gratitude to the following subject experts of SEDGB for their cooperation in preparing the syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB **Technical Support : Mr. Akbar Ali DD IT BEEGB**				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
1	English	Mr. Javed Iqbal CPLIC, TSDC	Mr. Mubarak Hussain CPLIC, TSDC	Ms. Afshan Nasir Instructor, CoE for Women Gilgit
2	Urdu	Ms. Sabika Khatoon SST, GHS Khomer Gilgit	Mr. Shakeel Hussain EST,BHS Minawer Gilgit	Nasir Abbas CPLIC, TSDC
3	Mathematics	Mr. Aziz Ahmad CPLIC, TSDC	Mr. Sajjad Hussain DD Finance & SE Maths, BEEGB	Mr. Dlair Shah Subject Expert (SE) Maths, BEEGB
4	Science	Mr. Asghar Ali CPLIC, TSDC	Mr. Abdul Bari DD Conduct & SE Science, BEEGB	Mr. Abdul Ghaffar AD Secrecy & SE Science, BEEGB
5	Islamiat	Mr. Nasir Hussain OT, BMS Jutal	Dr. Ikram uddin CPLIC, TSDC	Mr. Faqir Muhammad DD Admin and SE Islamiat, BEEGB
6	Geography	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB Technical Support : Mr. Akbar Ali DD IT BEEGB				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
7	History	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB
8	Computer Science	Ms. Nida Shaheen IT Expert, BEEGB	Mr. Shoukat Ali AD Conduct and SE, BEEGB	Ms. Nida Shaheen IT Expert, BEEGB
9	Agriculture	Mr. Ghulam Rasool TGT, HS No.1 Skardu	Mr. Maqsood Hussain TG, BHS Keris	Mr. Tariq Hussain CPLIC, TSDC
10	Drawing	Kacho Sadaqat FP,BEEGB Office Skardu	Mr. Ali Muhammad TGT, BHS Keris	Mr. Khadim Hussain AD IT & SE, BEEGB
11	Home Economics	Ms. Siddiqa Batool EST, GHS Skardu	Ms. Amber Rehman EST, GHSS Kashrote Gilgit	Ms. Muneera Akhtar Instructor, CoE for Women Gilgit
12	Arabic	Mr. Abdul Aziz OT BHS No.1 Gilgit	Mr. Abdul Basit OT BHS Hatoon Ghizer	Mr. Qasim Iqbal OT BHS Konodass Gilgit

SCHEME OF STUDIES AND CENTRALIZED SLO BASED SYLLABUS BREAK-UP 2026

GRADE 7 – WINTER ZONE

Subject: General Science

Domain A: Life Sciences

Class: 7

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
I. Plant Systems	Plant Systems	**1.** Explain the root and shoot system in plants. **2.** Label different parts of leaf, stem and root (external and internal structure).		✓ ✓		2 days	03 March, 2026	04 March, 2026
	Root System and Shoot System	**3.** Predict the role of xylem and phloem in transport of water and food in plants by observing the cross section of the stem.			✓	2 days	5 March, 2026	9 March, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level Duration					
	Transport	**6.** Explain that plants require minerals to maintain healthy growth and life processes (limited to magnesium to make chlorophyll and nitrates to make protein).	**K**	**U**	**A**		**From**	**To**
	Leaves as best photosynthetic sites	**7.** Explain that the structure of leaves is adapted to the process of photosynthesis.		✓		1 day	10 March, 2026	

	Respiration	**8.** Describe the process of respiration. **9.** Write word equations for it. **10.** Compare and contrast the processes of photosynthesis and respiration.		✓ ✓ ✓		1 day 2 days	11 March, 2026 12 March, 2026	 13 March, 2026
	Transpiration	**11.** Investigate the phenomena of transpiration and its importance. **12.** Describe factors (wind, temperature, light, humidity) affecting rate of transpiration in plants.		 ✓	✓	2 days	14 March, 2026	16 March, 2026
		13. Explore and apply natural raise of water based on the principle of transpiration.			✓	2 days	17 March, 2026	18 March, 2026
		Recap and Unit End Assessment				**4 days**	**19** March, 2026	**25** March, 2026

Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
II. Human Respiratory and Circulatory System	Aerobic and Anaerobic Respiration	**1.** Differentiate between the processes of respiration and breathing. **2.** Differentiate between aerobic and anaerobic respiration.		✓ ✓		2 days	26 March, 2026	27 March, 2026
	Human Respiratory System	**3**. Trace the path of air in and out of the body **4**. Explain that the oxygen in inhaled air is used during the process of respiration.		✓ ✓		1 day 2 days	2 April, 2026 3 April, 2026	 4 April, 2026
		5. Hypothesize how exercises of varying intensity (from rest to high-intensity interval training) would • impact their pulse rate, • test their hypothesis, • calculate their pulse rate and			✓	2 days	6 April, 2026	7 April, 2026

		• record their findings.						
		6. Describe the role and function of major organs in the human respiratory system including trachea, lungs and alveoli (air sacs). **7.** Explain that living organisms have a complex transport system for transfer of various solids, liquids, and gases across the body.		✓ ✓		2 days 1 day	8 April, 2026 10 April, 2026	09 April, 2026
	Circulatory System	**8**. Sketch and label the human circulatory system. **9.** Describe the structure and function of the human heart. **10.** Explain how blood circulates in the human body through a network of vessels (arteries, veins and capillaries), and transports gases, nutrients, wastes and heat.		✓ ✓ ✓		1 day 2 days 1 day	11 April, 2026 13 April, 2026	14 April, 2026
		11. Compare and contrast arteries, veins and capillaries. **12**. Describe the composition of blood and the functions of red cells, white cells, platelets and plasma.		✓ ✓		1 day 2 days	15 April, 2026 16 April, 2026	17 April, 2026
Recap and Unit End Assessment						**4 days**	**18** April, 2026	**22** April, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
III. Immunity and Disease	Immunity and its Types	1. Define basic terminology related to immunity and diseases (pathogens, infectious diseases, immunity). 2. Explain the various lines of defenses that the body has against pathogens	✓	✓		1 day 2 days	23 April, 2026 24 April, 2026	 25 April, 2026
		3. Describe the three types of immunity in humans – innate, adaptive, and passive.		✓		2 days	27 April, 2026	28 April, 2026
		4. Identify the various types of pathogens that cause infectious diseases. 5. Describe the parts of the immune system.		✓ ✓		2 days	29 April, 2026	30 April, 2026
		6. Describe how the parts of immune system function to produce an immune response.		✓		1 day	2 May, 2026	
	Adaptive Immunity	7. Illustrate how adaptive immunity develops over time. 8. Visualize the ways to add additional layers of defense (such as wearing masks, using sanitizers, etc.).			✓ ✓	2 days	4 May, 2026	05 May, 2026
	Ways to Boost Immunity	9. Propose some common strategies for strengthening their immune system.			✓	1 day	06 May, 2026	
	Infectious Diseases and their Control	10. Explain how infectious diseases such as hepatitis, covid-19, typhoid, and dengue are caused /contracted, how they are tested and diagnosed, and how they can be prevented. 11. Suggest ways in which communities of people can safeguard against the spread of infectious diseases.		✓	 ✓	2 days 1 day	07 May, 2026 09 May, 2026	08 May, 2026
Recap and Unit End Assessment						4 days	11 May, 2026	14 May, 2026

Domain B: Physical Science								

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
IV. Physical and Chemical Changes	Physical and Chemical Changes	1. Differentiate between physical and chemical changes while considering daily life examples.		✓		1 day	15 May, 2026	-
		2. Recognize that oxygen is needed in combustion, rusting and tarnishing. 3. Explore methods of preventing rusting.		✓	✓**P**	1 day	16 May, 2026	-
	Chemical Properties	4. Relate uses of materials to their chemical properties (e.g., tendency to rust, flammability).		✓		1 day	18 May, 2026	-
	Impact of Combustion	5. Evaluate Impact of combustion reaction on environment.			✓	2 days	19 May, 2026	20 May, 2026
	Physical properties	6. Relate uses of materials to their physical properties (e.g., melting point, boiling point, solubility, thermal conductivity).		✓		1 day	21 May, 2026	
	Physical properties Vs Chemical Properties	7. Distinguish between physical and chemical properties of matter.		✓		1 day	22 May, 2026	
Recap and Unit End Assessment						**3 days**	**23** May, 2026	**26** May, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
V. Structure of an Atom	Structure of an Atom	1. Describe and draw the structure of an atom in terms of electrons, protons and neutrons.		✓		1 day	29 May, 2026	
		2. Describe how an atom is electrically neutral.		✓		1 day	30 May, 2026	
	Atomic Number and Mass Number	3. Differentiate between atomic number and mass number. 4. Determine the atomic number and mass number of elements on the basis of the number of protons, electrons and neutrons.		✓	✓	1 days	1 June, 2026	
	Distribution of Electrons in	5. Show the arrangement of electrons in K, L and M shells of elements.			✓	2 days	2 June, 2026	3 June, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
	Shells	6. Draw the atomic structure of the first eighteen elements of the Periodic Table.			✓	2 days	4 June, 2026	05 June, 2026
	Periodic Table (Groups and Periods)	7. Explain that the Periodic Table is a way to organize elements in a systematic order.		✓		1 day	06 June, 2026	
		8. Recognize periods and groups in the Periodic Table.		✓		2 days	08 June, 2026	09 June, 2026
Recap and Unit End Assessment						4 days	10 June, 2026	13 June, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
VI. Chemical Bonds	Valency and Formation of Ions	1. Define valency. 2. Explain the formation of ions.	✓	✓		1 day	15 June, 2026	
	Chemical Formula	2. Write chemical formulae on the basis of valency of the constituent elements. such as H_2O, NaCl, NH3, CO_2, CO, etc.			✓	2 days	16 June, 2026	17 June, 2026
	Chemical Bonds	3. Recognize that a chemical bond results from the attraction between atoms in a compound and that the atoms' electrons are involved in this bonding.		✓		2 days	18 June, 2026	**19** June, 2026
Recap and Unit End Assessment						**4 days**	**20** June, 2026	**24** June, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
VI. Solutions	Water as Universal Solvent	1. Demonstrate the process of solution formation (using water as universal solvent).			✓P	2 days	27 June, 2026	29 June, 2026
	Components and Types of Solution	2. Distinguish among solute, solvent and solution; saturated and unsaturated solution.		✓		1 day	30 June, 2026	
	Solubility	3. Define solubility.	✓			1 day	1 July, 2026	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
		4. Recognize that the amount of solute which dissolves in a given solvent has an upper limit.		✓				
	Factors Affecting Solubility	5. Identify the factors which affect the solubility of a solute in a solvent and recognize the importance of these factors in homes and industries.		✓		2 day	2 July, 2026	3 July, 2026
	Dilute and Concentrated solutions	6. Explain what is meant by a concentrated and dilute solution.		✓		2 day	04 July, 2026	
	Process of Dissolving Materials	7. Identify ways of accelerating the process of dissolving materials in a given amount of water and provide reasoning (i.e., increasing the temperature, stirring, and breaking the solid into smaller pieces increases the process of dissolving).		✓		1 day	06 August, 2026	
	Applications of Solutions	8. Explore the effectiveness of various cleaning solutions in cleaning tarnished and oxidized coins. (STEAM)			✓P	2 day	7 July, 2026	08 July, 2026
		9. Make a rock candy with sugar using crystal seeding technique. (STEAM).			✓P	1 day	09 July, 2026	
Recap and Unit End Assessment						**4 days**	**10 July**, 2026	**14 July**, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
VIII. Force and Motion	Force and Speed	1. Define and state the SI unit of force. 2. Describe the effect of force on changing the speed and direction of motion with time. 3. State SI (System International) unit of speed.	✓ ✓	✓		3 days	15 July , 2026	17 July, 2026
		4. Calculate average speed.			✓P	2 days	18 July, 2026	20 July , 2026
		5. Formulate the relationship between speed, distance and time.			✓P	2 days	10 August, 2026	11 August, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
	Distance-Time Graph	6. Interpret a distance-time graph			✓	2 days	12 August, 2026	13 August, 2026
	Contact and non-contact Forces	7. Give examples of contact forces and non-contact forces.		✓		1 day	15 August, 2026	
	Forces as Action and Reaction Pairs	8. Demonstrate that forces always work in action and reaction pairs (equal in magnitude, opposite in direction).			✓P	2 days	17 August, 2026	18 August, 2026
Recap and Unit End Assessment						4 days	**19** August, 2026	**22 August, 2026**

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
IX. Waves and Energy	Waves and their Types (Mechanical and Electromagnetic Waves) (Longitudinal and Transverse waves)	1. Define a wave. 2. Compare the types of waves (mechanical and electromagnetic) with daily life examples.	✓	✓		2 days	24 August, 2026	25 August, 2026
		3. Distinguish between Longitudinal and Transverse waves.		✓		1 day	26 August, 2026	-
		4. Identify water waves and sound waves as mechanical wave, and light waves as electromagnetic waves.		✓		1 day	27 August, 2026	-
	Properties of Waves	5. Define the terms: Wavelength, frequency, and time period of wave. 6. Define and relate: 1. Pitch and frequency. 2. Amplitude and frequency.	✓	✓ ✓		1 day 1 day	28 August, 2026 29 August, 2026 31 August 2026	- -

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
		7. Explain the factors affecting pitch and loudness of sound.				1 day		
		8. Compare and interpret wave forms in terms of pitch and loudness.		✓	✓	2 days	1 September 2026	2 September 2026
		9. Construct the inverse relation between time period and frequency.		✓		2 days	3 September 2026	4 September 2026
		10. Relate common phenomenon (e.g., echo, hearing thunder after seeing lightning) to the properties of sound.				1 day	5 September 2026	
Recap and Unit End Assessment						**4 days**	**7** September 2026	**10** September 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
X. Heat and Temperature	Kinetic Molecular Theory	1. State the postulates of Kinetic Molecular Theory of Matter.		✓		2 days	11 September 2026	12 September 2026
	Heat and Thermal Expansion	2. Define the terms heat and temperature on the basis of Kinetic Molecular Theory.	✓			1 day	14 September 2026	
		3. Describe the expansion of the three states of matter on heating, and contraction on cooling, in terms of particles.		✓		2 days	15 September 2026	16September 2026
		4. Predict the effects of heat gain and heat loss.			✓P	2 days	17 September 2026	18 September 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
	Temperature	5. Define temperature. 6. Compare all three scales of temperature (including inter-conversion of temperature scales)	✓	✓		3 days	19 September 2026	29 September 2026
		7. Explain why metals are good thermal conductors and fluids are poor conductors of heat using the particle model		✓		2 days	30 September 2026	1 October 2026
	Transfer of Heat	8. Explain the concept of heat conduction, convection and radiation by applying particle theory including daily life examples		✓		2 days	2 October 2026	3 October 2026
	Effects of Thermal Expansion and Contraction	9. Identify the effects of thermal expansion and contraction with their applications in daily life.		✓		2 days	5 October 2026	06 October 2026
	Thermal Insulation for Constructing Buildings	10. Explain the practical methods of thermal insulation used for constructing buildings.		✓		3 days	7 October 2026	9 October 2026
Recap and Unit End Assessment						**4 days**	**10** October 2026	**14** October 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
XI. Technology in Everyday Life	Drip & Sprinkler Irrigation System	1. Design a model to demonstrate drip & sprinkler irrigation system for conservation of water.			✓	2 days	15 October 2026	16 October 2026
	Food Preservation	2. Use different techniques of preserving foods like orange juice, apple jam and pickles.			✓	2 days	17 October 2026	19 October 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
	Stethoscope	3. Make a simple Stethoscope.			✓	2 days	20 October 2026	21 October 2026
	Hand Sanitizer	4. Make a sanitizer using suitable substances.			✓	2 days	22 October 2026	23 October 2026
Recap and Unit End Assessment						**4 days**	**24** October 2026	**28** October 2026
Domain C: Earth and Space Sciences								
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
XII. Earth and Space	Gravity	1. Recognize that the force of gravity keeps planets and moons in their orbits.		✓		2 days	29 October 2026	30 October 2026
	Mass and Weight	2. Differentiate between mass and weight, using examples of weightlessness experienced by astronauts on the surface of the Moon.		✓		2 days	31 October 2026	2 November 2026
	Tides and Gravitational pull of the Moon	3. Recognize that tides are caused by the gravitational pull of the Moon.		✓		1 day	3 Novembber 2026	-
	Revolution of Earth, Change in Seasons and Constellation	4. Describe the effects of the Earth's annual revolution around the Sun, given the tilt of its axis (e.g., different seasons, different constellations visible at different times of the year).		✓		2 days	4 November 2026	5 November 2026
		5. Describe how seasons in Earth's Northern and Southern Hemispheres are related to Earth's annual movement around the Sun.		✓		2 days	6 November 2026	7 November 2026
Recap and Unit End Assessment						**02 days**	**8 November 2026.**	**10 November 2026**
Revision for Annual Examination 2026						**05days**	**11 November 2026**	**16 November 2026**

Number of Student Learning Outcomes by Cognitive Level

S#	Theme/Units	No. of Sub-Topics	SLOs			Total SLOs
			K	U	A	
1	Plant System	7	1	9	3	13
2	Human Respiratory and Circulatory System	3	0	11	1	12
3	Immunity and Diseases	4	1	6	4	11
4	Physical and chemical changes	5	0	5	2	7
5	Structure of an atom	4	0	5	3	8
6	Chemical bond	3	1	0	2	3
7	Solutions	7	1	5	3	9
8	Force and motion	4	2	2	4	8
9	Waves and energy	2	2	7	1	10
10	Heat and temperature	6	2	7	1	10
11	Technology in everyday life	4	0	0	4	4
12	Earth and Space	4	0	5	0	5
Total		**53**	**10**	**62**	**28**	**100**

Determining Marks/Weightage for a Specific Theme/Unit General Science 7

S No	Theme/Unit	No of SLOs in the Unit	Total No of SLOs of Subject	Weightage in % = No of SLOs in the Unit / Total No of SLOs of the Subject × 100	Weightage in Marks = Calculated Percentage in previous column X Total Marks including option(140) ÷ 100
1	Plant System	13	100	13	18
2	Human Respiratory and Circulatory System	12	100	12	17
3	Immunity and Diseases	11	100	12	15
4	Physical and chemical changes	7	100	7	10
5	Structure of an atom	8	100	8	11
6	Chemical bond	9	100	9	13
7	Solutions	3	100	3	4
8	Force and motion	8	100	8	11
9	Waves and energy	10	100	10	14
10	Heat and temperature	10	100	10	14
11	Technology in everyday life	4	100	4	6
12	Earth and Space	5	100	5	7
Total		**100**	**100**		**140**

Table of Specification (including options)

S No	Theme/Unit	No of SLOs in the Unit	Total Marks	MCQs	CRQs	ERQs
1	Plant System	13	18	02 ×1 = 02	02 × 3 = 06	01 × 7 = 07
2	Human Respiratory and Circulatory System	12	17	02 × 1 = 02	03 × 3 = 09	
3	Immunity and Diseases	11	15	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
4	Physical and chemical changes	7	10	02 × 1 = 02	02 × 3 = 06	
5	Structure of an atom	8	11	02 × 1 = 02	03 × 3 = 09	01 × 7 = 07
6	Chemical bond	9	13	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
7	Solutions	3	4	02 × 1 = 02	02 × 3 = 06	
8	Force and motion	8	11	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
9	Waves and energy	10	14	02 × 1 = 02	02 × 3 = 06	
10	Heat and temperature	10	14	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
11	Technology in everyday life	4	6	01 × 1 = 01	02 × 3 = 06	-
12	Earth and Space	5	7	01 × 1 = 01	02 × 3 = 06	
Total		**110**	**140**	**20**	**78**	**42**

Summary of Exam Specification

Section	Number of Questions	Marks per Question	Total Marks of questions to be attempted	Total marks with options
MCQs	**20**	**1**	**20**	**20**
CRQs	**13+13 (100 % Choice)**	**3**	**39**	**78**
ERQs	**3+3 (100 % Choice)**	**7**	**21**	**42**
Practical			**20**	
Total	**60**	**-**	**100**	**140**

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BOARD OF ELEMENTARY EXAMINATION
GILGIT–BALTISTAN
No. BEEGB (G)-2(1) Exam (Secrecy)/2025
Gilgit, the 16th March, 2026

To,

The Deputy Director Education, Gilgit, Ghizer,Hunza,Nager , Diamer,Astore, Skardu,Ghanche,Shiger & Kharmang

Subject: **REQUEST FOR DISSEMINATION AND IMPLEMENTATION OF SYLLABUS BREAK UP DOCUMENTS FROM GRADE 6 TO 8 FOR THE ACADEMIC SESSSION 2026**

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5	Islamiat	Mr. Nasir Hussain OT, BMS Jutal	Dr. Ikram uddin CPLIC, TSDC	Mr. Faqir Muhammad DD Admin and SE Islamiat, BEEGB
6	Geography	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB
7	History	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB Technical Support : Mr. Akbar Ali DD IT BEEGB				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
8	Computer Science	Ms. Nida Shaheen IT Expert, BEEGB	Mr. Shoukat Ali AD Conduct and SE, BEEGB	Ms. Nida Shaheen IT Expert, BEEGB
9	Agriculture	Mr. Ghulam Rasool TGT, HS No.1 Skardu	Mr. Maqsood Hussain TG, BHS Keris	Mr. Tariq Hussain CPLIC, TSDC
10	Drawing	Kacho Sadaqat FP,BEEGB Office Skardu	Mr. Ali Muhammad TGT, BHS Keris	Mr. Khadim Hussain AD IT & SE, BEEGB
11	Home Economics	Ms. Siddiqa Batool EST, GHS Skardu	Ms. Amber Rehman EST, GHSS Kashrote Gilgit	Ms. Muneera Akhtar Instructor, CoE for Women Gilgit
12	Arabic	Mr. Abdul Aziz OT BHS No.1 Gilgit	Mr. Abdul Basit OT BHS Hatoon Ghizer	Mr. Qasim Iqbal OT BHS Konodass Gilgit

SCHEME OF STUDIES AND CENTRALIZED SLO BASED SYLLABUS BREAK-UP
GRADE 7 SUMMER ZONE

Subject: General Science — Class: 7

Domain A: Life Sciences

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
I. Plant Systems	**Plant Systems**	**1.** Explain the root and shoot system in plants. **2.** Label different parts of leaf, stem and root (external and internal structure).		✓ ✓		3 days	06 Feb 2026	09 Feb 2026
	Root System and Shoot System	**3.** Predict the role of xylem and phloem in transport of water and food in plants by observing the cross section of the stem.			✓	2 days	10 Feb 2026.	11 Feb 2026.
	Photosynthesis	**4.** Define the process of photosynthesis. **5.** Write word equations for photosynthesis.	✓	 ✓		1 day	13 Feb 2026.	-
	Transport	**6.** Explain that plants require minerals to maintain healthy growth and life processes (limited to magnesium to make chlorophyll and nitrates to make protein).		✓		2 days	14 Feb 2026.	16, Feb 2026
	Leaves as best photosynthetic sites	**7.** Explain that the structure of leaves is adapted to the process of photosynthesis.		✓		2 days	17 Feb 2026	18 Feb 2026.
	Respiration	**8.** Describe the process of respiration. **9.** Write word equations for it. **10.** Compare and contrast the processes of photosynthesis and respiration.		✓ ✓ ✓		1 day 2 days	19 Feb 2026. 20 Feb 2026	 21 Feb 2026.
	Transpiration	**11.** Investigate the phenomena of transpiration and its importance.			✓	2 days	23 Feb 2026	24 Feb 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
		12. Describe factors (wind, temperature, light, humidity) affecting rate of transpiration in plants.		✓				
		13. Explore and apply natural raise of water based on the principle of transpiration.			✓	2 days	25 Feb 2026	26 Feb 2026
Recap and Unit End Assessment						**4 days**	**27** Feb 2026	**03 March 2026.**
II. Human Respiratory and Circulatory System	**Aerobic and Anaerobic Respiration**	**1.** Differentiate between the processes of respiration and breathing. **2.** Differentiate between aerobic and anaerobic respiration.		✓ ✓		2 days	04 March 2026.	05 March 2026
	Human Respiratory System	**3**. Trace the path of air in and out of the body **4**. Explain that the oxygen in inhaled air is used during the process of respiration.		✓ ✓		1 day 2 days	06 March 2026. 07 March 2026.	09 March 2026.
		5. Hypothesize how exercises of varying intensity (from rest to high-intensity interval training) would • impact their pulse rate, • test their hypothesis, • calculate their pulse rate and record their findings.			✓	2 days	10 March 2026	11 March 2026
		6. Describe the role and function of major organs in the human respiratory system including trachea, lungs and alveoli (air sacs). **7.** Explain that living organisms have a complex transport system for transfer of various solids, liquids, and gases across the body.		✓		2 days	12 March 2026 14 March	13 March 2026. 16 March

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
				✓		2 days	2026.	2026.
	Circulatory System	**8**. Sketch and label the human circulatory system. **9.** Describe the structure and function of the human heart. **10.** Explain how blood circulates in the human body through a network of vessels (arteries, veins and capillaries), and transports gases, nutrients, wastes and heat.		✓ ✓ ✓		1 day 2 days 2 days	17 March 2026 18 March 2026. 19 March 2026. 20 March 2026.	- 20 March 2026. 24 March 2026.
		11. Compare and contrast arteries, veins and capillaries. **12**. Describe the composition of blood and the functions of red cells, white cells, platelets and plasma.		✓ ✓		2 days 2 days	25 March 2026. 21 March 2026.	26 March 2026.
Recap and Unit End Assessment						**4 days**	**24 March 2026**	**27 March 2026**
III. Immunity and Disease	**Immunity and its Types**	1.Define basic terminology related to immunity and diseases (pathogens, infectious diseases, immunity). 2. Explain the various lines of defenses that the body has against pathogens	✓	✓		1 day 2 days	28 March 2026.	- 30 March 2026
		3. Describe the three types of immunity in humans – innate, adaptive, and passive.		✓		2 days	31 March 2026	01 April 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
		4. Identify the various types of pathogens that cause infectious diseases. 5. Describe the parts of the immune system.		✓ ✓		2 days	02 April 2026	03 April 2026
		6. Describe how the parts of immune system function to produce an immune response.		✓		1 day	4 April 2026	
	Adaptive Immunity	7. Illustrate how adaptive immunity develops over time. 8. Visualize the ways to add additional layers of defense (such as wearing masks, using sanitizers, etc.).			✓ ✓	2 days	06April 2026	07 April 2026
	Ways to Boost Immunity	9. Propose some common strategies for strengthening their immune system.			✓	1 day	08 April 2026	
	Infectious Diseases and their Control	10. Explain how infectious diseases such as hepatitis, covid-19, typhoid, and dengue are caused /contracted, how they are tested and diagnosed, and how they can be prevented. 11. Suggest ways in which communities of people can safeguard against the spread of infectious diseases.		✓	 ✓	2 days 1 day	09 April 2026 11 April 2026	10 April 2026
Recap and Unit End Assessment						4 days	13 April 2026	16 April 2026
Domain B: Physical Sciences								
IV. Physical and Chemical Changes	**Physical and Chemical Changes**	1. Differentiate between physical and chemical changes while considering daily life examples.		✓		1 day	17 April 2026	-
		2. Recognize that oxygen is needed in combustion, rusting and tarnishing. 3. Explore methods of preventing rusting.		✓	 ✓	1 day	18 April 2026	-
	Chemical Properties	4. Relate uses of materials to their chemical properties (e.g., tendency to rust, flammability).		✓		1 day	20 April 2026	-
	Impact of Combustion	5. Evaluate Impact of combustion reaction on environment.			✓	2 days	21 April 2026	22 April 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
	Physical properties	6. Relate uses of materials to their physical properties (e.g., melting point, boiling point, solubility, thermal conductivity).		✓		1 day	23 April 2026	-
	Physical properties Vs Chemical Properties	7. Distinguish between physical and chemical properties of matter.		✓		1 day	24 April 2026	-
Recap and Unit End Assessment						**3 days**	**25 April 2026**	**28 April 2026**
V. Structure of an Atom	**Structure of an Atom**	1. Describe and draw the structure of an atom in terms of electrons, protons and neutrons.		✓		1 day	29 April 2026	
		2. Describe how an atom is electrically neutral.		✓		1 day	30 April 2026	
	Atomic Number and Mass Number	3. Differentiate between atomic number and mass number. 4. Determine the atomic number and mass number of elements on the basis of the number of protons, electrons and neutrons.		✓	✓	2 days	02 May 2026	04 May 2026
	Distribution of Electrons in Shells	5. Show the arrangement of electrons in K, L and M shells of elements. 6. Draw the atomic structure of the first eighteen elements of the Periodic Table.			✓ ✓	2 days 2 days	05 May 2026 07 May 2026	06 May 2026 08 May 2026
	Periodic Table (Groups and Periods)	7. Explain that the Periodic Table is a way to organize elements in a systematic order.		✓		1 day	09 May 2026	
		8. Recognize periods and groups in the Periodic Table.		✓		2 days	11 May 2026	12 May 2026
Recap and Unit End Assessment						4 days	13 May 2026	16 May 2026
VI. Chemical Bonds	**Valency and Formation of Ions**	1. Define valency. 2. Explain the formation of ions.	✓	✓		1 day	18 May 2026	
	Chemical Formula	2. Write chemical formulae on the basis of valency of the constituent elements. such as H_2O, NaCl, NH3, CO_2, CO, etc.			✓	2 days	19 May 2026	20 May 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
	Chemical Bonds	3. Recognize that a chemical bond results from the attraction between atoms in a compound and that the atoms' electrons are involved in this bonding.		✓		2 days	23 May 2026	25 May 2026
Recap and Unit End Assessment						3 days	**26** May 2026	**01 June** 2026
VI. Solutions	**Water as Universal Solvent**	1. Demonstrate the process of solution formation (using water as universal solvent).			✓	2 days	02 June 2026	3 June 2026
	Components and Types of Solution	2. Distinguish among solute, solvent and solution; saturated and unsaturated solution.		✓		1 day	4 June 2026	
	Solubility	3. Define solubility. 4. Recognize that the amount of solute which dissolves in a given solvent has an upper limit.	✓	✓		1 day	5 June 2026	
	Factors Affecting Solubility	5. Identify the factors which affect the solubility of a solute in a solvent and recognize the importance of these factors in homes and industries.		✓		2 day	06 June 2026	08 June 2026
	Dilute and Concentrated solutions	6. Explain what is meant by a concentrated and dilute solution.		✓		2 day	09 June 2026	10 June 2026
	Process of Dissolving Materials	7. Identify ways of accelerating the process of dissolving materials in a given amount of water and provide reasoning (i.e., increasing the temperature, stirring, and breaking the solid into smaller pieces increases the process of dissolving).		✓		1 day	11 June 2026	
	Applications of Solutions	8. Explore the effectiveness of various cleaning solutions in cleaning tarnished and oxidized coins. (STEAM)			✓	2 day	12 June 2026	13 June 2026
		9. Make a rock candy with sugar using crystal seeding technique. (STEAM).			✓	1 day	15 June 2026	
Recap and Unit End Assessment						**4 days**	**16** June 2026	**19** June 2026
VIII. Force and Motion	**Force and Speed**	1. Define and state the SI unit of force. 2. Describe the effect of force on changing the speed and direction of motion with time. 3. State SI (System International) unit of speed.	✓ ✓	✓		3 days	20 June 2026	23 June 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
		4. Calculate average speed.			✓	2 days	24 June 2026	27 June 2026
		5. Formulate the relationship between speed, distance and time.			✓	2 days	29 June 2026	30 June 2026
	Distance-Time Graph	6. Interpret a distance-time graph			✓	2 days	13 August 2026	15 August, 2026
	Contact and non-contact Forces	7. Give examples of contact forces and non-contact forces.		✓		1 day	17 August, 2026	-
	Forces as Action and Reaction Pairs	8. Demonstrate that forces always work in action and reaction pairs (equal in magnitude, opposite in direction).			✓	2 days	18 August, 2026	19 August, 2026
Recap and Unit End Assessment						4 days	**20** August, 2026	**24** August, 2026
IX. Waves and Energy	**Waves and their Types (Mechanical and Electromagnetic Waves) (Longitudinal and Transverse waves)**	1. Define a wave. 2. Compare the types of waves (mechanical and electromagnetic) with daily life examples.	✓	✓		2 days	25 August, 2026	27 August, 2026
		3. Distinguish between Longitudinal and Transverse waves.		✓		1 day	28 August, 2026	-
		4. Identify water waves and sound waves as mechanical wave, and light waves as electromagnetic waves.		✓		1 day	29 August, 2026	-
	Properties of Waves	5. Define the terms: Wavelength, frequency, and time period of wave. 6. Define and relate: 1. Pitch and frequency. 2. Amplitude and frequency. 7. Explain the factors affecting pitch and loudness of sound.	✓	✓		1 day 1 day	31 August, 2026 011 Sep, 2026	- -

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
				✓		1 day	02 September 2026	
		8. Compare and interpret wave forms in terms of pitch and loudness. 9. Construct the inverse relation between time period and frequency. 10. Relate common phenomenon (e.g., echo, hearing thunder after seeing lightning) to the properties of sound.		✓ ✓	✓	2 days 2 days 1 day	3 September 2026 5 September 2026 8 September 2026	4 September 2026 7 September 2026
Recap and Unit End Assessment						**4 days**	**9** September 2026	**12** September 2026
X. Heat and Temperature	**Kinetic Molecular Theory**	1. State the postulates of Kinetic Molecular Theory of Matter.		✓		2 days	14 September 2026	15 September 2026
	Heat and Thermal Expansion	2. Define the terms heat and temperature on the basis of Kinetic Molecular Theory. 3. Describe the expansion of the three states of matter on heating, and contraction on cooling, in terms of particles. 4. Predict the effects of heat gain and heat loss.	✓	✓	✓	1 day 2 days 2 days	16 September 2026 17 September 2026 19 September 2026	 18 September 2026 28 September 2026
	Temperature	5. Define temperature.	✓			3 days	29 September	01 Oct, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
		6. Compare all three scales of temperature (including inter-conversion of temperature scales)		✓			2026	
		7. Explain why metals are good thermal conductors and fluids are poor conductors of heat using the particle model		✓		2 days	02 Oct,2026	03 Oct,2026
	Transfer of Heat	8. Explain the concept of heat conduction, convection and radiation by applying particle theory including daily life examples		✓		2 days	05 Oct, 2026	06 Oct, 2026
	Effects of Thermal Expansion and Contraction	9. Identify the effects of thermal expansion and contraction with their applications in daily life.		✓		2 days	07 Oct, 2026	08 October 2026
	Thermal Insulation for Constructing Buildings	10. Explain the practical methods of thermal insulation used for constructing buildings.		✓		3 days	09 October 2026	12 October 2026
Recap and Unit End Assessment						**4 days**	**13** October 2026	**16** October 2026
XI. Technology in Everyday Life	**Drip & Sprinkler Irrigation System**	1. Design a model to demonstrate drip & sprinkler irrigation system for conservation of water.			✓	2 days	17 October 2026	19 October 2026
	Food Preservation	2. Use different techniques of preserving foods like orange juice, apple jam and pickles.			✓	2 days	20 October 2026	21 October 2026
	Stethoscope	3. Make a simple Stethoscope.			✓	2 days	22 October 2026	23 October 2026
	Hand Sanitizer	4. Make a sanitizer using suitable substances.			✓	2 days	24 October 2026	26 October 2026
Recap and Unit End Assessment						**4 days**	**27** October 2026	**30** October 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	21 days	From	To
Domain C: Earth and Space Sciences								
XII. Earth and Space	**Gravity**	1. Recognize that the force of gravity keeps planets and moons in their orbits.		✓		2 days	31 October 2026	02 Nov, 2026
	Mass and Weight	2. Differentiate between mass and weight, using examples of weightlessness experienced by astronauts on the surface of the Moon.		✓		2 days	03 Nov, 2026	04 Nov, 2026
	Tides and Gravitational pull of the Moon	3. Recognize that tides are caused by the gravitational pull of the Moon.		✓		1 day	05 Nov, 2026	-
	Revolution of Earth, Change in Seasons and Constellation	4. Describe the effects of the Earth's annual revolution around the Sun, given the tilt of its axis (e.g., different seasons, different constellations visible at different times of the year).		✓		2 days	06 Nov, 2026	07 Nov, 2026
		5. Describe how seasons in Earth's Northern and Southern Hemispheres are related to Earth's annual movement around the Sun.		✓		2 days	09 Nov, 2026	10 Nov, 2026
Recap and Unit End Assessment						**04 days**	**11 November 2026.**	**14 November 2026**
Revision for Annual Examination 2026						**01 day**	**16 November 2026**	

Number of Student Learning Outcomes by Cognitive Level

S#	Theme/Units	No. of Sub-Topics	SLOs			Total SLOs
			K	U	A	
1	Plant System	7	1	9	3	13
2	Human Respiratory and Circulatory System	3	0	11	1	12
3	Immunity and Diseases	4	1	6	4	11
4	Physical and chemical changes	5	0	5	2	7
5	Structure of an atom	4	0	5	3	8
6	Chemical bond	3	1	0	2	3
7	Solutions	7	1	5	3	9
8	Force and motion	4	2	2	4	8
9	Waves and energy	2	2	7	1	10
10	Heat and temperature	6	2	7	1	10
11	Technology in everyday life	4	0	0	4	4
12	Earth and Space	4	0	5	0	5
Total		**53**	**10**	**62**	**28**	**100**

Determining Marks/Weightage for a Specific Theme/Unit General Science 7

S No	Theme/Unit	No of SLOs in the Unit	Total No of SLOs of Subject	Weightage in % = No of SLOs in the Unit / Total No of SLOs of the Subject × 100	Weightage in Marks = Calculated Percentage in previous column X Total Marks including option(140) ÷ 100
1	Plant System	13	100	13	18
2	Human Respiratory and Circulatory System	12	100	12	17
3	Immunity and Diseases	11	100	12	15
4	Physical and chemical changes	7	100	7	10
5	Structure of an atom	8	100	8	11
6	Chemical bond	9	100	9	13
7	Solutions	3	100	3	4
8	Force and motion	8	100	8	11
9	Waves and energy	10	100	10	14
10	Heat and temperature	10	100	10	14
11	Technology in everyday life	4	100	4	6
12	Earth and Space	5	100	5	7
Total		**100**	**100**		**140**

Table of Specification (including options)

S No	Theme/Unit	No of SLOs in the Unit	Total Marks	MCQs	CRQs	ERQs
1	Plant System	13	18	02 ×1 = 02	02 × 3 = 06	01 × 7 = 07
2	Human Respiratory and Circulatory System	12	17	02 × 1 = 02	03 × 3 = 09	
3	Immunity and Diseases	11	15	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
4	Physical and chemical changes	7	10	02 × 1 = 02	02 × 3 = 06	
5	Structure of an atom	8	11	02 × 1 = 02	03 × 3 = 09	01 × 7 = 07
6	Chemical bond	9	13	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
7	Solutions	3	4	02 × 1 = 02	02 × 3 = 06	
8	Force and motion	8	11	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
9	Waves and energy	10	14	02 × 1 = 02	02 × 3 = 06	
10	Heat and temperature	10	14	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
11	Technology in everyday life	4	6	01 × 1 = 01	02 × 3 = 06	-
12	Earth and Space	5	7	01 × 1 = 01	02 × 3 = 06	
Total		**110**	**140**	**20**	**78**	**42**

Summary of Exam Specification

Section	Number of Questions	Marks per Question	Total Marks of questions to be attempted	Total marks with options
MCQs	**20**	**1**	**20**	**20**
CRQs	**13+13 (100 % Choice)**	**3**	**39**	**78**
ERQs	**3+3 (100 % Choice)**	**7**	**21**	**42**
Practical			**20**	
Total	**60**	**-**	**100**	**140**

GOVERNMENT OF GILGIT-BALTISTAN
BOARD OF ELEMENTARY EXAMINATION
GILGIT–BALTISTAN
No. BEEGB (G)-2(1) Exam (Secrecy)/2025
Gilgit, the 16th March, 2026

To,

The Deputy Director Education, Gilgit, Ghizer,Hunza,Nager , Diamer,Astore, Skardu,Ghanche,Shiger & Kharmang

Subject: **REQUEST FOR DISSEMINATION AND IMPLEMENTATION OF SYLLABUS BREAK UP DOCUMENTS FROM GRADE 6 TO 8 FOR THE ACADEMIC SESSSION 2026**

As per past practice the BEEGB academic team in collaboration with CPLICs and the subject experts of SEDGB Baltistan and Gilgit Division has prepared syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Considering the suggestions of the stakeholders of SEDGB the documents for this academic session will be disseminated class-wise, subject-wise and zone -wise separately to make them easily accessible for all stakeholders instead of sending all documents in a single file which becomes very bulky and cannot be downloaded easily.

In this regard, all the respected DDEs are requested to distribute the said documents among all stakeholders and ensure proper implementation in true letter and spirit please.

(Abdul Hamid)
Controller Board of Elementary
Examination Gilgit- Baltistan
Phone #: 05811-940888

Copy for Information to:

1. The Secretary SEDGB
2. The DG SEDGB
3. The Divisional Director Gilgit, Baltistan and Diamer- Astore
4. The Divisional Assistant Controllers BEEGB for Gilgit,Baltistan and Diamer-Astore

ACKNOWLEDGEMENT

The BEEGB Academic team extends its gratitude to the following subject experts of SEDGB for their cooperation in preparing the syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB **Technical Support : Mr. Akbar Ali DD IT BEEGB**				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
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3	Mathematics	Mr. Aziz Ahmad CPLIC, TSDC	Mr. Sajjad Hussain DD Finance & SE Maths, BEEGB	Mr. Dlair Shah Subject Expert (SE) Maths, BEEGB
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Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB Technical Support : Mr. Akbar Ali DD IT BEEGB				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
7	History	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB
8	Computer Science	Ms. Nida Shaheen IT Expert, BEEGB	Mr. Shoukat Ali AD Conduct and SE, BEEGB	Ms. Nida Shaheen IT Expert, BEEGB
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12	Arabic	Mr. Abdul Aziz OT BHS No.1 Gilgit	Mr. Abdul Basit OT BHS Hatoon Ghizer	Mr. Qasim Iqbal OT BHS Konodass Gilgit

SCHEME OF WORK AND SYLLABUS BREAKDOWN 2026
GRADE 7-EXTREME WINTER ZONE

Subject: General Science
Domain A : Life Sciences **Class: 7**

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
I. Plant Systems	**Plant Systems**	**1.** Explain the root and shoot system in plants. **2.** Label different parts of leaf, stem and root (external and internal structure).		✓ ✓		2 days	01 April, 2026	02 April, 2026
	Root System and Shoot System	**3.** Predict the role of xylem and phloem in transport of water and food in plants by observing the cross section of the stem.			✓	2 days	03 April, 2026	04 April, 2026
	Photosynthesis	**4.** Define the process of photosynthesis. **5.** Write word equations for photosynthesis.	✓	✓		1 day	06 April, 2026	
	Transport	**6.** Explain that plants require minerals to maintain healthy growth and life processes (limited to magnesium to make chlorophyll and nitrates to make protein).		✓		2 days	07April, 2026	08 April, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
	Leaves as best photosynthetic sites	**7.** Explain that the structure of leaves is adapted to the process of photosynthesis.		✓		1 day	09 April, 2026	
	Respiration	**8.** Describe the process of respiration. **9.** Write word equations for it. **10.** Compare and contrast the processes of photosynthesis and respiration.		✓ ✓ ✓		1 day 2 days	10 April, 2026 11 April, 2026	 13 April, 2026
	Transpiration	**11.** Investigate the phenomena of transpiration and its importance. **12.** Describe factors (wind, temperature, light, humidity) affecting rate of transpiration in plants.		 ✓	✓	2 days	14 April, 2026	15 April, 2026
		13. Explore and apply natural raise of water based on the principle of transpiration.			✓	2 days	16 April, 2026	17 April, 2026
Recap and Unit End Assessment						**3 days**	**18** April, 2026	**21** April, 2026
II. Human Respiratory and Circulatory System	**Aerobic and Anaerobic Respiration**	**1.** Differentiate between the processes of respiration and breathing. **2.** Differentiate between aerobic and anaerobic respiration.		✓ ✓		2 days	22 April, 2026	23April, 2026
	Human Respiratory System	**3**. Trace the path of air in and out of the body **4**. Explain that the oxygen in inhaled air is used during the process of respiration.		✓ ✓		1 day 1 day	24 April, 2026 25 April, 2026	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
		5. Hypothesize how exercises of varying intensity (from rest to high-intensity interval training) would • impact their pulse rate, • test their hypothesis, • calculate their pulse rate and • record their findings.			✓	2 days	27 April, 2026	28 April, 2026
		6. Describe the role and function of major organs in the human respiratory system including trachea, lungs and alveoli (air sacs).		✓		2 days	29 Aprl, 2023	30 April, 2023
		7. Explain that living organisms have a complex transport system for transfer of various solids, liquids, and gases across the body.		✓		1 day	02 May, 2026	
	Circulatory System	**8**. Sketch and label the human circulatory system.		✓		1 day	04 May, 2026	
		9. Describe the structure and function of the human heart.		✓		2 days	05 May, 2026	06 May, 2026
				✓		2 days	07 May, 2026	08 May, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
		10. Explain how blood circulates in the human body through a network of vessels (arteries, veins and capillaries), and transports gases, nutrients, wastes and heat.						
		11. Compare and contrast arteries, veins and capillaries. **12**. Describe the composition of blood and the functions of red cells, white cells, platelets and plasma.		✓ ✓		1 day 2 days	09 May, 2026 11 May, 2026	12 May, 2026
Recap and Unit End Assessment						**4 days**	**13** May, 2026	**16** May, 2026
III. Immunity and Disease	**Immunity and its Types**	1. Define basic terminology related to immunity and diseases (pathogens, infectious diseases, immunity). 2. Explain the various lines of defenses that the body has against pathogens	✓	✓		1 day 2 days	18 May, 2026 19 May, 2026	20 May, 2026
		3. Describe the three types of immunity in		✓		2 days	21 May, 2026	22 May, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
		humans – innate, adaptive, and passive.						
		4. Identify the various types of pathogens that cause infectious diseases. 5. Describe the parts of the immune system.		✓ ✓		1 day	23 May, 2026	------
		6. Describe how the parts of immune system function to produce an immune response.		✓		1 day	25 May, 2026	
	Adaptive Immunity	7. Illustrate how adaptive immunity develops over time. 8. Visualize the ways to add additional layers of defense (such as wearing masks, using sanitizers, etc.).			✓ ✓	2 days	26 May, 2026	30 May, 2026
	Ways to Boost Immunity	9. Propose some common strategies for strengthening their immune system.			✓	1 day	01 June, 2026	
	Infectious Diseases and their Control	10. Explain how infectious diseases such as hepatitis, covid-19, typhoid, and dengue are caused /contracted, how they are tested and diagnosed, and how they can be prevented. 11. Suggest ways in which communities of people can safeguard against the spread of infectious diseases.		✓	 ✓	2 days 1 day	02 June, 2026 04 June, 2026	03 June, 2026
Recap and Unit End Assessment						3 days	05 June, 2026	08 June, 2026
Domain B Physical Sciences								
IV.	**Physical and Chemical**	1. Differentiate between physical and chemical changes while considering daily life examples.		✓		1 day	09 June, 2026	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
Physical and Chemical Changes	**Changes**	2. Recognize that oxygen is needed in combustion, rusting and tarnishing. 3. Explore methods of preventing rusting.		✓	✓P	1 day	10 June, 2026	
	Chemical Properties	4. Relate uses of materials to their chemical properties (e.g., tendency to rust, flammability).		✓		1 day	11 June, 2026	
	Impact of Combustion	5. Evaluate Impact of combustion reaction on environment.			✓	1 day	12 June, 2026	
	Physical properties	6. Relate uses of materials to their physical properties (e.g., melting point, boiling point, solubility, thermal conductivity).		✓		1 day	13 June, 2026	
	Physical properties Vs Chemical Properties	7. Distinguish between physical and chemical properties of matter.		✓		1 day	15 June, 2026	
Recap and Unit End Assessment						**3 days**	16 June, 2026	**18** June, 2026
V. Structure of an Atom	**Structure of an Atom**	1. Describe and draw the structure of an atom in terms of electrons, protons and neutrons.		✓		1 day	19 June, 2026	
		2. Describe how an atom is electrically neutral.		✓		1 day	20 June, 2026	
	Atomic Number and Mass Number	3. Differentiate between atomic number and mass number. 4. Determine the atomic number and mass number of elements on the basis of the number of protons, electrons and neutrons.		✓	✓	2 days	22 June, 2026	23 June, 2026
	Distribution of	5. Show the arrangement of electrons in K, L			✓	2 days	24 June, 2026	27 June, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
	Electrons in Shells	and M shells of elements. 6. Draw the atomic structure of the first eighteen elements of the Periodic Table.			✓	2 days	29 June, 2026	30 June, 2026
	Periodic Table (Groups and Periods)	7. Explain that the Periodic Table is a way to organize elements in a systematic order.		✓		1 day	01 July, 2026	
		8. Recognize periods and groups in the Periodic Table.		✓		1 day	02 July, 2026	
Recap and Unit End Assessment						3 days	03 July, 2026	06 July, 2026
VI. Chemical Bonds	**Valency and Formation of Ions**	1. Define valency. 2. Explain the formation of ions.	✓	✓		1 day	07 July, 2026	
	Chemical Formula	2. Write chemical formulae on the basis of valency of the constituent elements. such as H_2O, NaCl, NH3, CO_2, CO, etc.			✓	2 days	08 July, 2026	09 July, 2026
	Chemical Bonds	3. Recognize that a chemical bond results from the attraction between atoms in a compound and that the atoms' electrons are involved in this bonding.		✓		2 days	10 July, 2026	11 July, 2026
Recap and Unit End Assessment						**4 days**	**13** July, 2026	**16** July, 2026
VII. Solutions	**Water as Universal Solvent**	1. Demonstrate the process of solution formation (using water as universal solvent).			✓P	1 day	17 July, 2026	
	Components and Types of Solution	2. Distinguish among solute, solvent and solution; saturated and unsaturated solution.		✓		1 day	18 July, 2026	
	Solubility	3. Define solubility. 4. Recognize that the amount of solute which	✓	✓		1 day	20 July, 2026	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
		dissolves in a given solvent has an upper limit.						
	Factors Affecting Solubility	5. Identify the factors which affect the solubility of a solute in a solvent and recognize the importance of these factors in homes and industries.		✓		2 day	21 July, 2026	22 July, 2026
	Dilute and Concentrated solutions	6. Explain what is meant by a concentrated and dilute solution.		✓		1 day	23 July, 2026	
	Process of Dissolving Materials	7. Identify ways of accelerating the process of dissolving materials in a given amount of water and provide reasoning (i.e., increasing the temperature, stirring, and breaking the solid into smaller pieces increases the process of dissolving).		✓		1 day	24 July, 2026	
	Applications of Solutions	8. Explore the effectiveness of various cleaning solutions in cleaning tarnished and oxidized coins. (STEAM)			✓P	2 day	25 July, 2026	27 July, 2026
		9. Make a rock candy with sugar using crystal seeding technique. (STEAM).			✓P	1 day	28 July, 2026	
Recap and Unit End Assessment						**4 days**	**29** July, 2026	**01** August 2026
VIII. Force and Motion	**Force and Speed**	1. Define and state the SI unit of force. 2. Describe the effect of force on changing the speed and direction of motion with time. 3. State SI (System International) unit of speed.	✓ ✓	✓		3 days	03 August 2026	05 August 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A	Days	From	To
		4. Calculate average speed.			✓P	2 days	06 August 2026	07 August 2026
		5. Formulate the relationship between speed, distance and time.			✓P	2 days	08 August 2026	10 August 2026
	Distance-Time Graph	6. Interpret a distance-time graph			✓	2 days	11 August 2026	12 August, 2026
	Contact and non-contact Forces	7. Give examples of contact forces and non-contact forces.		✓		1 day	13 August, 2026	-
	Forces as Action and Reaction Pairs	8. Demonstrate that forces always work in action and reaction pairs (equal in magnitude, opposite in direction).			✓P	2 days	15 August, 2026	17 August, 2026
Recap and Unit End Assessment						4 days	**18** August, 2026	**21** August, 2026
IX. Waves and Energy	**Waves and their Types (Mechanical and Electromagnetic Waves) (Longitudinal and Transverse waves)**	1. Define a wave. 2. Compare the types of waves (mechanical and electromagnetic) with daily life examples.	✓	✓		2 days	22 August, 2026	24 August, 2026
		3. Distinguish between Longitudinal and Transverse waves.		✓		1 day	25 August, 2026	-
		4. Identify water waves and sound waves as mechanical wave, and light waves as electromagnetic waves.		✓		1 day	26 August, 2026	-
	Properties of Waves	5. Define the terms: Wavelength, frequency, and time period of wave.	✓			1 day	27 August, 2026	-

		6. Define and relate: 1. Pitch and frequency. 2. Amplitude and frequency. 7. Explain the factors affecting pitch and loudness of sound.		✓ ✓		1 day 1 day	28 August, 2026 29 August 2026	-
		8. Compare and interpret wave forms in terms of pitch and loudness. 9. Construct the inverse relation between time period and frequency. 10. Relate common phenomenon (e.g., echo, hearing thunder after seeing lightning) to the properties of sound.		✓ ✓	✓	2 days 2 days 1 day	31 August 2026 02 September 2026 04 September 2026	01 September 2026 03 September 2026
Recap and Unit End Assessment						**4 days**	**05** September 2026	**10** September 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**	**23 days**	**From**	**To**
X. Heat and Temperature	**Kinetic Molecular Theory**	1. State the postulates of Kinetic Molecular Theory of Matter.		✓		2 days	11 September 2026	12 September 2026
	Heat and Thermal Expansion	2. Define the terms heat and temperature on the basis of Kinetic Molecular Theory.	✓	✓		1 day	14 September 2026	

		3. Describe the expansion of the three states of matter on heating, and contraction on cooling, in terms of particles. 4. Predict the effects of heat gain and heat loss.			✓P	2 days 2 days	15 September 2026 17 September 2026	16 September 2026 18 September 2026
	Temperature	5. Define temperature. 6. Compare all three scales of temperature (including inter-conversion of temperature scales)	✓	✓		3 days	19 September 2026	29 September 2026
		7. Explain why metals are good thermal conductors and fluids are poor conductors of heat using the particle model		✓		2 days	30 September 2026	01 October 2026
	Transfer of Heat	8. Explain the concept of heat conduction, convection and radiation by applying particle theory including daily life examples		✓		2 days	02 October 2026	03 October 2026
	Effects of Thermal Expansion and Contraction	9. Identify the effects of thermal expansion and contraction with their applications in daily life.		✓		2 days	05 October 2026	06 October 2026
	Thermal Insulation for Constructing Buildings	10. Explain the practical methods of thermal insulation used for constructing buildings.		✓		3 days	07 October 2026	09 October 2026
Recap and Unit End Assessment						**4 days**	**10** October 2026	**14** October 2026
XI. Technology	**Drip & Sprinkler Irrigation System**	1. Design a model to demonstrate drip & sprinkler irrigation system for conservation of water.			✓	2 days	15 October 2026	16 October 2026

in Everyday Life	**Food Preservation**	2. Use different techniques of preserving foods like orange juice, apple jam and pickles.			✓	2 days	17 October 2026	19 October 2026
	Stethoscope	3. Make a simple Stethoscope.			✓	2 days	20 October 2026	21 October 2026
	Hand Sanitizer	4. Make a sanitizer using suitable substances.			✓	2 days	22 October 2026	23 October 2026
Recap and Unit End Assessment						**4 days**	**24** October 2026	**28** October 2026
Domain C: Earth and Space Sciences								
XII. Earth and Space	**Gravity**	1. Recognize that the force of gravity keeps planets and moons in their orbits.		✓		2 days	29 October 2026	30 October 2026
	Mass and Weight	2. Differentiate between mass and weight, using examples of weightlessness experienced by astronauts on the surface of the Moon.		✓		2 days	31 October 2026	02 November 2026
	Tides and Gravitational pull of the Moon	3. Recognize that tides are caused by the gravitational pull of the Moon.		✓		1 day	03 Novembber 2026	-
	Revolution of Earth, Change in Seasons and Constellation	4. Describe the effects of the Earth's annual revolution around the Sun, given the tilt of its axis (e.g., different seasons, different constellations visible at different times of the year).		✓		2 days	04 November 2026	05 November 2026
		5. Describe how seasons in Earth's Northern and Southern Hemispheres are related to Earth's annual movement around the Sun.		✓		2 days	06 November 2026	07 November 2026
Recap and Unit End Assessment						**03 days**	**10 November 2026.**	**12 November 2026**
Revision for Annual Examination 2026						**04 days**	**13 November 2026**	**16 November 2026**

Number of Student Learning Outcomes by Cognitive Level

S#	Theme/Units	No. of Sub-Topics	SLOs			Total SLOs
			K	U	A	
1	Plant System	7	1	9	3	13
2	Human Respiratory and Circulatory System	3	0	11	1	12
3	Immunity and Diseases	4	1	6	4	11
4	Physical and chemical changes	5	0	5	2	7
5	Structure of an atom	4	0	5	3	8
6	Chemical bond	3	1	0	2	3
7	Solutions	7	1	5	3	9
8	Force and motion	4	2	2	4	8
9	Waves and energy	2	2	7	1	10
10	Heat and temperature	6	2	7	1	10
11	Technology in everyday life	4	0	0	4	4
12	Earth and Space	4	0	5	0	5
Total		**53**	**10**	**62**	**28**	**100**

Determining Marks/Weightage for a Specific Theme/Unit General Science 7

S No	Theme/Unit	No of SLOs in the Unit	Total No of SLOs of Subject	Weightage in % = No of SLOs in the Unit / Total No of SLOs of the Subject × 100	Weightage in Marks = Calculated Percentage in previous column X Total Marks including option(140) ÷ 100
1	Plant System	13	100	13	18
2	Human Respiratory and Circulatory System	12	100	12	17
3	Immunity and Diseases	11	100	12	15
4	Physical and chemical changes	7	100	7	10
5	Structure of an atom	8	100	8	11
6	Chemical bond	9	100	9	13
7	Solutions	3	100	3	4
8	Force and motion	8	100	8	11
9	Waves and energy	10	100	10	14
10	Heat and temperature	10	100	10	14
11	Technology in everyday life	4	100	4	6
12	Earth and Space	5	100	5	7
Total		**100**	**100**		**140**

Table of Specification (including options)

S No	Theme/Unit	No of SLOs in the Unit	Total Marks	MCQs	CRQs	ERQs
1	Plant System	13	18	02 ×1 = 02	02 × 3 = 06	01 × 7 = 07
2	Human Respiratory and Circulatory System	12	17	02 × 1 = 02	03 × 3 = 09	
3	Immunity and Diseases	11	15	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
4	Physical and chemical changes	7	10	02 × 1 = 02	02 × 3 = 06	
5	Structure of an atom	8	11	02 × 1 = 02	03 × 3 = 09	01 × 7 = 07
6	Chemical bond	9	13	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
7	Solutions	3	4	02 × 1 = 02	02 × 3 = 06	
8	Force and motion	8	11	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
9	Waves and energy	10	14	02 × 1 = 02	02 × 3 = 06	
10	Heat and temperature	10	14	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
11	Technology in everyday life	4	6	01 × 1 = 01	02 × 3 = 06	-
12	Earth and Space	5	7	01 × 1 = 01	02 × 3 = 06	
Total		**110**	**140**	**20**	**78**	**42**

Summary of Exam Specification

Section	Number of Questions	Marks per Question	Total Marks of questions to be attempted	Total marks with options
MCQs	20	1	20	20
CRQs	13+13 (100 % Choice)	3	39	78
ERQs	3+3 (100 % Choice)	7	21	42
Practical			20	
Total	60	-	100	140

GOVERNMENT OF GILGIT-BALTISTAN
BOARD OF ELEMENTARY EXAMINATION
GILGIT–BALTISTAN
No. BEEGB (G)-2(1) Exam (Secrecy)/2025
Gilgit, the 16th March, 2026

To,

The Deputy Director Education, Gilgit, Ghizer,Hunza,Nager , Diamer,Astore, Skardu,Ghanche,Shiger & Kharmang

Subject: **REQUEST FOR DISSEMINATION AND IMPLEMENTATION OF SYLLABUS BREAK UP DOCUMENTS FROM GRADE 6 TO 8 FOR THE ACADEMIC SESSSION 2026**

As per past practice the BEEGB academic team in collaboration with CPLICs and the subject experts of SEDGB Baltistan and Gilgit Division has prepared syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Considering the suggestions of the stakeholders of SEDGB the documents for this academic session will be disseminated class-wise, subject-wise and zone -wise separately to make them easily accessible for all stakeholders instead of sending all documents in a single file which becomes very bulky and cannot be downloaded easily.

In this regard, all the respected DDEs are requested to distribute the said documents among all stakeholders and ensure proper implementation in true letter and spirit please.

(Abdul Hamid)
Controller Board of Elementary
Examination Gilgit- Baltistan
Phone #: 05811-940888

Copy for Information to:

1. The Secretary SEDGB
2. The DG SEDGB
3. The Divisional Director Gilgit, Baltistan and Diamer- Astore
4. The Divisional Assistant Controllers BEEGB for Gilgit, Baltistan and Diamer-Astore

ACKNOWLEDGEMENT

The BEEGB Academic team extends its gratitude to the following subject experts of SEDGB for their cooperation in preparing the syllabus break up documents from Grade 6 to 8 for the academic session 2026.

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB **Technical Support : Mr. Akbar Ali DD IT BEEGB**				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
1	English	Mr. Javed Iqbal CPLIC, TSDC	Mr. Mubarak Hussain CPLIC, TSDC	Ms. Afshan Nasir Instructor, CoE for Women Gilgit
2	Urdu	Ms. Sabika Khatoon SST, GHS Khomer Gilgit	Mr. Shakeel Hussain EST,BHS Minawer Gilgit	Nasir Abbas CPLIC, TSDC
3	Mathematics	Mr. Aziz Ahmad CPLIC, TSDC	Mr. Sajjad Hussain DD Finance & SE Maths, BEEGB	Mr. Dlair Shah Subject Expert (SE) Maths, BEEGB
4	Science	Mr. Asghar Ali CPLIC, TSDC	Mr. Abdul Bari DD Conduct & SE Science, BEEGB	Mr. Abdul Ghaffar AD Secrecy & SE Science, BEEGB
5	Islamiat	Mr. Nasir Hussain OT, BMS Jutal	Dr. Ikram uddin CPLIC, TSDC	Mr. Faqir Muhammad DD Admin and SE Islamiat, BEEGB
6	Geography	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB
7	History	Ms. Shamama Kosar Edu. Fellow, GHS Skardu	Mr. Imtiaz Ahmad CPLIC, TSDC	Hafiz Sardar SE and IT Assistant, BEEGB

Facilitators: Ms. Memona Abbas Dy. Controller BEEGB & Ms. Zareen Taj DD Research and Secrecy BEEGB Technical Support : Mr. Akbar Ali DD IT BEEGB				
S.No	**Subject**	**Grade 6**	**Grade 7**	**Grade 8**
8	Computer Science	Ms. Nida Shaheen IT Expert, BEEGB	Mr. Shoukat Ali AD Conduct and SE, BEEGB	Ms. Nida Shaheen IT Expert, BEEGB
9	Agriculture	Mr. Ghulam Rasool TGT, HS No.1 Skardu	Mr. Maqsood Hussain TG, BHS Keris	Mr. Tariq Hussain CPLIC, TSDC
10	Drawing	Kacho Sadaqat FP,BEEGB Office Skardu	Mr. Ali Muhammad TGT, BHS Keris	Mr. Khadim Hussain AD IT & SE, BEEGB
11	Home Economics	Ms. Siddiqa Batool EST, GHS Skardu	Ms. Amber Rehman EST, GHSS Kashrote Gilgit	Ms. Muneera Akhtar Instructor, CoE for Women Gilgit
12	Arabic	Mr. Abdul Aziz OT BHS No.1 Gilgit	Mr. Abdul Basit OT BHS Hatoon Ghizer	Mr. Qasim Iqbal OT BHS Konodass Gilgit

SCHEME OF STUDIES AND CENTRALIZED SLO BASED SYLLABUS BREAK-UP 2026
GRADE-7 EXTREME SUMMER ZONE

Subject: General Science

Class: 7

Domain A: Life Sciences

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
I. Plant Systems	Plant Systems	**1.** Explain the root and shoot system in plants. **2.** Label different parts of leaf, stem and root (external and internal structure).		✓ ✓		3 days	6 January 2026	8 January 2026
	Root System and Shoot System	**3.** Predict the role of xylem and phloem in transport of water and food in plants by observing the cross section of the stem.			✓	2 days	9 January 2026	10 January 2026
	Photosynthesis	**4.** Define the process of photosynthesis. **5.** Write word equations for photosynthesis.	✓	✓		1 day	12 January 2026	
	Transport	**6.** Explain that plants require minerals to maintain healthy growth and life processes (limited to magnesium to make chlorophyll and nitrates to make protein).		✓		2 days	13 January 2026	14 January 2026
	Leaves as best photosynthetic sites	**7.** Explain that the structure of leaves is adapted to the process of photosynthesis.		✓		2 days	15 January 2026	16 January 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
	Respiration	**8.** Describe the process of respiration. **9.** Write word equations for it. **10.** Compare and contrast the processes of photosynthesis and respiration.		✓ ✓ ✓		1 day 2 days	17 January 2026 19 January 2026	20 January 2026
	Transpiration	**11.** Investigate the phenomena of transpiration and its importance. **12.** Describe factors (wind, temperature, light, humidity) affecting rate of transpiration in plants.		 ✓	✓	2 days	21 January 2026	22 January 2026
		13. Explore and apply natural raise of water based on the principle of transpiration.			✓	2 days	23 January 2026	24 January 2026
Recap and Unit End Assessment						**3 days**	**26** January 2026	**28** January 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
II. Human Respiratory and Circulatory System	Aerobic and Anaerobic Respiration	**1.** Differentiate between the processes of respiration and breathing. **2.** Differentiate between aerobic and anaerobic respiration.		✓ ✓		2 days	29 January 2026	30 January 2026
	Human Respiratory System	**3**. Trace the path of air in and out of the body **4**. Explain that the oxygen in inhaled air is used during the process of		✓ ✓		1 day	31 January 2026 02	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
		respiration.				2 days	February, 2026	3 February, 2026
		5. Hypothesize how exercises of varying intensity (from rest to high-intensity interval training) would • impact their pulse rate, • test their hypothesis, • calculate their pulse rate and • record their findings.			✓	2 days	4 February, 2026	6 February, 2026
		6. Describe the role and function of major organs in the human respiratory system including trachea, lungs and alveoli (air sacs).		✓		2 days	7 February, 2026	9 February, 2026
		7. Explain that living organisms have a complex transport system for transfer of various solids, liquids, and gases across the body.		✓		2 days	10 February, 2026	11 February, 2026
	Circulatory System	**8**. Sketch and label the human circulatory system.		✓		1 day	12 February, 2026	-
		9. Describe the structure and function of the human heart.		✓				
		10. Explain how blood circulates in the human body through a network of vessels (arteries, veins and capillaries), and transports gases, nutrients, wastes and heat.		✓		2 days	13 February, 2026	14 February, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
						2 days	16 February, 2026	17 February, 2026
		11. Compare and contrast arteries, veins and capillaries. **12**. Describe the composition of blood and the functions of red cells, white cells, platelets and plasma.		✓ ✓		2 days 2 days	18 February, 2026 20 February, 2026	19 February, 2026 21 February, 2026
Recap and Unit End Assessment						**3 days**	**23** February, 2026	**25** February, 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
III. Immunity and Disease	Immunity and its Types	1. Define basic terminology related to immunity and diseases (pathogens, infectious diseases, immunity). 2. Explain the various lines of defenses that the body has against pathogens	✓	 ✓		1 day 2 days	26 February, 2026 27 February, 2026	- 28 February, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
		3. Describe the three types of immunity in humans – innate, adaptive, and passive.		✓		2 days	02 March, 2026	3 March, 2026
		4. Identify the various types of pathogens that cause infectious diseases. 5. Describe the parts of the immune system.		✓ ✓		2 days	4 March, 2026	5 March, 2026
		6. Describe how the parts of immune system function to produce an immune response.		✓		1 day	6 March, 2026	
	Adaptive Immunity	7. Illustrate how adaptive immunity develops over time. 8. Visualize the ways to add additional layers of defense (such as wearing masks, using sanitizers, etc.).			✓ ✓	2 days	7 March, 2026	09 March, 2026
	Ways to Boost Immunity	9. Propose some common strategies for strengthening their immune system.			✓	1 day	10 March, 2026	
	Infectious Diseases and their Control	10. Explain how infectious diseases such as hepatitis, covid-19, typhoid, and dengue are caused /contracted, how they are tested and diagnosed, and how they can be prevented. 11. Suggest ways in which communities of people can safeguard against the spread of infectious diseases.		✓	 ✓	2 days 1 day	11 March, 2026 13 March, 2026	12 March, 2026
Recap and Unit End Assessment						3 days	14 March, 2026	17 March, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
IV. Physical and Chemical Changes	Physical and Chemical Changes	1. Differentiate between physical and chemical changes while considering daily life examples.		✓		1 day	18 March, 2026	
		2. Recognize that oxygen is needed in combustion, rusting and tarnishing. 3. Explore methods of preventing rusting.		✓	✓	1 day	19 March, 2026	
	Chemical Properties	4. Relate uses of materials to their chemical properties (e.g., tendency to rust, flammability).		✓		1 day	20 March, 2026	
	Impact of Combustion	5. Evaluate Impact of combustion reaction on environment.			✓	2 days	24 March, 2026	25 March, 2026
	Physical properties	6. Relate uses of materials to their physical properties (e.g., melting point, boiling point, solubility, thermal conductivity).		✓		1 day	26 March, 2026	
	Physical properties Vs Chemical Properties	7. Distinguish between physical and chemical properties of matter.		✓		1 day	27 March, 2026	
Recap and Unit End Assessment						**3 days**	**28** March, 2026	**31** March, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
V. Structure of an Atom	Structure of an Atom	1. Describe and draw the structure of an atom in terms of electrons, protons and neutrons.		✓		1 day	01 April, 2026	
		2. Describe how an atom is electrically neutral.		✓		1 day	2 April, 2026	
	Atomic Number and Mass Number	3. Differentiate between atomic number and mass number. 4. Determine the atomic number and mass number of elements on the		✓	✓	2 days	3 April, 2026	04 April, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
		basis of the number of protons, electrons and neutrons.						
	Distribution of Electrons in Shells	5. Show the arrangement of electrons in K, L and M shells of elements. 6. Draw the atomic structure of the first eighteen elements of the Periodic Table.			✓ ✓	2 days 2 days	6 April, 2026 8 April, 2026	07 April, 2026 9 April, 2026
	Periodic Table (Groups and Periods)	7. Explain that the Periodic Table is a way to organize elements in a systematic order.		✓		1 day	10 April, 2026	
		8. Recognize periods and groups in the Periodic Table.		✓		2 days	11 April, 2026	13 April, 2026
Recap and Unit End Assessment						3 days	14 April, 2026	16 April, 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
VI. Chemical Bonds	Valency and Formation of Ions	1. Define valency. 2. Explain the formation of ions.	✓	 ✓		1 day	17 April, 2026	
	Chemical Formula	2. Write chemical formulae on the basis of valency of the constituent elements. such as H_2O, NaCl, NH3, CO_2, CO, etc.			✓	2 days	18 April, 2026	20 April, 2026
	Chemical Bonds	3. Recognize that a chemical bond results from the attraction between atoms in a compound and that the atoms' electrons are involved in this bonding.		✓		2 days	21 April, 2026	22 April, 2026
Recap and Unit End Assessment						**2 days**	**23** April, 2026	**24** April, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
VII. Solutions	Water as Universal Solvent	1. Demonstrate the process of solution formation (using water as universal solvent).			✓P	2 days	25 April, 2026	27 April, 2026
	Components and Types of Solution	2. Distinguish among solute, solvent and solution; saturated and unsaturated solution.		✓		1 day	28 April, 2026	
	Solubility	3. Define solubility. 4. Recognize that the amount of solute which dissolves in a given solvent has an upper limit.	✓	✓		1 day	29 April, 2026	
	Factors Affecting Solubility	5. Identify the factors which affect the solubility of a solute in a solvent and recognize the importance of these factors in homes and industries.		✓		2 day	30 April, 2026	2 May, 2026
	Dilute and Concentrated solutions	6. Explain what is meant by a concentrated and dilute solution.		✓		2 day	04 May, 2026	05 May, 2026
	Process of Dissolving Materials	7. Identify ways of accelerating the process of dissolving materials in a given amount of water and provide reasoning (i.e., increasing the temperature, stirring, and breaking the solid into smaller pieces increases the process of dissolving).		✓		1 day	06 May, 2026	
	Applications of Solutions	8. Explore the effectiveness of various cleaning solutions in cleaning tarnished and oxidized coins. (STEAM)			✓P	2 day	7 May, 2026	8 May, 2026
		9. Make a rock candy with sugar using crystal seeding technique. (STEAM).			✓P	1 day	9 May, 2026	-
Recap and Unit End Assessment						**4 days**	**11** May, 2026	**14** May, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
VIII. Force and Motion	Force and Speed	1. Define and state the SI unit of force. 2. Describe the effect of force on changing the speed and direction of motion with time. 3. State SI (System International) unit of speed.	✓ ✓	✓		3 days	15 May, 2026	18 May,2026
		4. Calculate average speed.			✓P	2 days	19 May, 2026	20 May, 2026
		5. Formulate the relationship between speed, distance and time.			✓P	2 days	21 May, 2026	22 May, 2026
	Distance-Time Graph	6. Interpret a distance-time graph			✓	2 days	23 May, 2026	25 May, 2026
	Contact and non-contact Forces	7. Give examples of contact forces and non-contact forces.		✓		1 day	26 May, 2026	-
	Forces as Action and Reaction Pairs	8. Demonstrate that forces always work in action and reaction pairs (equal in magnitude, opposite in direction).			✓	2 days	1 June, 2026	02 June, 2026
Recap and Unit End Assessment						4 days	**03** June, 2026	**06** June, 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
IX. Waves and Energy	Waves and their Types (Mechanical and	1. Define a wave. 2. Compare the types of waves (mechanical and electromagnetic) with daily life examples.	✓	✓		2 days	8 June, 2026	9 June, 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
	Electromagnetic Waves) (Longitudinal and Transverse waves)	3. Distinguish between Longitudinal and Transverse waves.		✓		2 days	10 June, 2026	11 June, 2026
		4. Identify water waves and sound waves as mechanical wave, and light waves as electromagnetic waves.		✓		1 day	12 June, 2026	-
	Properties of Waves	5. Define the terms: Wavelength, frequency, and time period of wave.	✓			1 day	13, June, 2026	-
		6. Define and relate: 1. Pitch and frequency. 2. Amplitude and frequency.		✓		1 day	15 June, 2026	-
		7. Explain the factors affecting pitch and loudness of sound.		✓		1 day	16 June, 2026	
		8. Compare and interpret wave forms in terms of pitch and loudness.		✓		2 days	17 June ,2026	1 September 2026
		9. Construct the inverse relation between time period and frequency.			✓	2 days	2 September 2026	3 September 2026
		10. Relate common phenomenon (e.g., echo, hearing thunder after seeing lightning) to the properties of sound.		✓		1 day	4 September 2026	

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
Recap and Unit End Assessment						**4 days**	5 September 2026	**9** September 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
X. Heat and Temperature	Kinetic Molecular Theory	1. State the postulates of Kinetic Molecular Theory of Matter.		✓		2 days	10 September 2026	11 September 2026
	Heat and Thermal Expansion	2. Define the terms heat and temperature on the basis of Kinetic Molecular Theory.	✓			1 day	12 September 2026	
		3. Describe the expansion of the three states of matter on heating, and contraction on cooling, in terms of particles.		✓		2 days	14 September 2026	15 September 2026
		4. Predict the effects of heat gain and heat loss.			✓P	2 days	16 September 2026	17 September 2026
	Temperature	5. Define temperature. 6. Compare all three scales of temperature (including inter-conversion of temperature scales)	✓	✓		3 days	18 September 2026	28 September 2026
		7. Explain why metals are good thermal conductors and fluids are poor conductors of heat using the particle model		✓		2 days	29 September	30 September

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
							2026	2026
	Transfer of Heat	8. Explain the concept of heat conduction, convection and radiation by applying particle theory including daily life examples		✓		2 days	1 October 2026	2 October 2026
	Effects of Thermal Expansion and Contraction	9. Identify the effects of thermal expansion and contraction with their applications in daily life.		✓		2 days	3 October 2026	05 October 2026
	Thermal Insulation for Constructing Buildings	10. Explain the practical methods of thermal insulation used for constructing buildings.		✓		3 days	06 October 2026	07 October 2026
Recap and Unit End Assessment						**4 days**	**08** October 2026	12 October 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
XI. Technology in Everyday Life	Drip & Sprinkler Irrigation System	1. Design a model to demonstrate drip & sprinkler irrigation system for conservation of water.			✓	2 days	13 October 2026	14 October 2026
	Food Preservation	2. Use different techniques of preserving foods like orange juice, apple jam and pickles.			✓	2 days	15 October 2026	16 October 2026
	Stethoscope	3. Make a simple Stethoscope.			✓	2 days	17 October 2026	19 October 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
	Hand Sanitizer	4. Make a sanitizer using suitable substances.			✓	2 days	20 October 2026	21 October 2026
Recap and Unit End Assessment						**4 days**	**22** October 2026	**26** October 2026
Theme/ Unit	**Sub-Topic**	**Student Learning Outcome**	**Cognitive Level**			**Duration**	**Date**	
			K	**U**	**A**		**From**	**To**
Domain C: Earth and Space Sciences								
XII. Earth and Space	Gravity	1. Recognize that the force of gravity keeps planets and moons in their orbits.		✓		2 days	27 October 2026	28 October 2026
	Mass and Weight	2. Differentiate between mass and weight, using examples of weightlessness experienced by astronauts on the surface of the Moon.		✓		2 days	29 October 2026	30 October 2026
	Tides and Gravitational pull of the Moon	3. Recognize that tides are caused by the gravitational pull of the Moon.		✓		1 day	31 October 2026	-
	Revolution of Earth, Change in Seasons and Constellation	4. Describe the effects of the Earth's annual revolution around the Sun, given the tilt of its axis (e.g., different seasons, different constellations visible at different times of the year).		✓		2 days	1 November 2026	2 November 2026
		5. Describe how seasons in Earth's Northern and Southern Hemispheres are related to Earth's annual movement around the Sun.		✓		2 days	3 November 2026	04 November 2026

Theme/ Unit	Sub-Topic	Student Learning Outcome	Cognitive Level			Duration	Date	
			K	U	A		From	To
Domain B: Physical Sciences								
Recap and Unit End Assessment						**03 days**	**05 November 2026.**	**07 November 2026**
Revision for Annual Examination 2026						**06 days**	**10 November 2026**	**16 November 2026**

Number of Student Learning Outcomes by Cognitive Level

S#	Theme/Units	No. of Sub-Topics	SLOs			Total SLOs
			K	U	A	
1	Plant System	7	1	9	3	13
2	Human Respiratory and Circulatory System	3	0	11	1	12
3	Immunity and Diseases	4	1	6	4	11
4	Physical and chemical changes	5	0	5	2	7
5	Structure of an atom	4	0	5	3	8
6	Chemical bond	3	1	0	2	3
7	Solutions	7	1	5	3	9
8	Force and motion	4	2	2	4	8
9	Waves and energy	2	2	7	1	10
10	Heat and temperature	6	2	7	1	10
11	Technology in everyday life	4	0	0	4	4
12	Earth and Space	4	0	5	0	5
Total		**53**	**10**	**62**	**28**	**100**

Determining Marks/Weightage for a Specific Theme/Unit General Science 7

S No	Theme/Unit	No of SLOs in the Unit	Total No of SLOs of Subject	Weightage in % = No of SLOs in the Unit / Total No of SLOs of the Subject × 100	Weightage in Marks = Calculated Percentage in previous column X Total Marks including option(140) ÷ 100
1	Plant System	13	100	13	18
2	Human Respiratory and Circulatory System	12	100	12	17
3	Immunity and Diseases	11	100	12	15
4	Physical and chemical changes	7	100	7	10
5	Structure of an atom	8	100	8	11
6	Chemical bond	9	100	9	13
7	Solutions	3	100	3	4
8	Force and motion	8	100	8	11
9	Waves and energy	10	100	10	14
10	Heat and temperature	10	100	10	14
11	Technology in everyday life	4	100	4	6
12	Earth and Space	5	100	5	7
Total		**100**	**100**		**140**

Table of Specification (including options)

S No	Theme/Unit	No of SLOs in the Unit	Total Marks	MCQs	CRQs	ERQs
1	Plant System	13	18	02 ×1 = 02	02 × 3 = 06	01 × 7 = 07
2	Human Respiratory and Circulatory System	12	17	02 × 1 = 02	03 × 3 = 09	
3	Immunity and Diseases	11	15	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
4	Physical and chemical changes	7	10	02 × 1 = 02	02 × 3 = 06	
5	Structure of an atom	8	11	02 × 1 = 02	03 × 3 = 09	01 × 7 = 07
6	Chemical bond	9	13	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
7	Solutions	3	4	02 × 1 = 02	02 × 3 = 06	
8	Force and motion	8	11	02 × 1 = 02	02 × 3 = 06	01 × 7 = 07
9	Waves and energy	10	14	02 × 1 = 02	02 × 3 = 06	
10	Heat and temperature	10	14	01 × 1 = 01	02 × 3 = 06	01 × 7 = 07
11	Technology in everyday life	4	6	01 × 1 = 01	02 × 3 = 06	-
12	Earth and Space	5	7	01 × 1 = 01	02 × 3 = 06	
Total		**110**	**140**	**20**	**78**	**42**

Summary of Exam Specification

Section	Number of Questions	Marks per Question	Total Marks of questions to be attempted	Total marks with options
MCQs	**20**	**1**	**20**	**20**
CRQs	**13+13 (100 % Choice)**	**3**	**39**	**78**
ERQs	**3+3 (100 % Choice)**	**7**	**21**	**42**
Practical			**20**	
Total	**60**	**-**	**100**	**140**