



Unit Name and Number	Week No.	Content Headings	Key Sub-Topics / Context / Vocabulary	Projects / Graded Assignments	Question Style for Exam	Justification for Exam Content: Bloom's Taxonomy	Government Objectives
4 Force and motion	1	Force And Motion of Objects Activities: 4.1 Force and Motion of Objects.	force, push, pull, object, motion, moving objects, rotation, distance, direction, shape, size, speed up, slow down, stop, stationary objects, position	Text book pages: 100 - 105 (10 points for each objective)	Classification and explanation tests: Explain how objects move and stop. Classify various activities according to types of forces depicted.	Understand Students should be able to explain types of forces and their interaction with motion of objects	4:Sc4.1:1 Experiment and explain effects of forces acting on objects.
4 Force and motion	2	Gravity and Weight of Objects Activities: 4.2 Throwing Objects Up in the Air	gravitational force, weight, heavy, light, center of the earth, stairs, walk up, walk down, center of the earth	Textbook pages: 106 - 110 (10 points for each objective)	Mutiple choice tests: Give reasons why	Analyse Students should be able to explain why objects and humans need to be aided by a force when ascending up anything and almost no aid when descending.	4:Sc4.1:2 Experiment the falling of objects on the Earth's surface and explain the Earth's attractive forces on the objects.
4 Force and motion	3	Activities: 4.3 How Much Does an Object Weigh?	weight, mass, gravity	Textbook pages: 111 - 117 (10 points for each objective)	Completion tests: Describing gravitational force.	Remember Students should be able to describe with illustrations how gravity interacts with the weight of objects, humans and animals.	



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5 Energy and Electricity	4	Electricity at Home				Understand	
		Activities: 5.1 Energy Resources for Generating Electricity	energy, mechanical energy, chemical energy, solar energy, light energy, sound energy, heat energy, energy sources, coal, gasohol, natural gas, solar cells, batteries, renewable energy source, non renewable energy	Textbook pages: 120 - 127 (10 points for each objective)	Classification tests: Classify sources of energy given as renewable and non-renewable.	Students should be able to explain why some energy sources are categorised as renewable and others as non-renewable.	5:Sc5.1:1 Identify natural energy sources utilized for producing electricity
5 Energy and Electricity	5	Electric Appliances at Home				Remember	
		Activities: 5.2 Changing Energy Into Other Forms	electricity, electrical appliances, light bulb, switch, socket, electric wire, power station, fuel, wind, water, sun, electricity	Textbook pages: 127 - 131 (10 points for each objective)	Completion tests: Describing with drawings, the conversion of energy during electricity generation.	Students should be able to recall and describe the different stages energy undergoes before it becomes electricity in different energy sources.	5:Sc5.1:2 Explain the importance of electrical energy and propose economical and safe methods for utilizing electricity.
5 Energy and Electricity	6&7	Using Electricity Wisely and Safely				Understand	
		Activities: 5.3 Using Electricity Wisely and Safely	socket, electric wire, power station, fuel, waste, conserve, save, economy, power on, power off, switch on, switch off.	Textbook pages: 132 - 141 (10 points for each objective)	Classification tests: Classify given practices as energy wasting or energy saving.	Students should be able to explain and classify energy saving and energy wasting practices.	5:Sc5.1:2 Explain the importance of electrical energy and propose economical and safe methods for utilizing electricity.



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Review for Midterm exam	8	Review For Midterm Exam Review Of Units, 4 And 5	units, 4 and 5 vocabulary, outline, encircle, space, instruction, answersheet, question	N/A		N/A	
Midterm Exam	9	Midterm Exam Students Do Midterm Exam	N/A	Midterm Test paper 20 points	N/A	N/A	
6 Water around us.	10	Sources in the Region and How We Benefit from Them Activities: 6.1 Water Sources In Our Region	water, natural, sources, man-made, water sources, hygroscopic water, ground water, atmospheric water, cloud, fog, rain, surface water, rivers, canals, streams, marshes, swamps, lakes, seas, and oceans	Textbook pages: 144 - 149 (10 points for each objective)	Completion tests: Listing the various uses of water in the local area. Explaining how to keep water sources clean.	Remember Students should be able to recall and list the various uses of water and also explain how to keep the sources clean.	6:Sc6.1:1 Explore and explain physical properties of water from sources in the local area, and apply the knowledge gained for useful purposes.
6 Water in Our Region	11	Properties Of Water Activities: 6.2 Investigating Some Properties of Water	properties, characteristics, colourless, odourless, tasteless, solid, liquid, gas	Textbook pages: 150 - 157 (10 points for each objective)	Completion tests: Describe changes of states of water in nature. Listing the properties of water.	Remember Students should be able to recall and describe the changes of states of water as well as list its properties.	



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6 Water in Our Region	12	Quality of Water Activities: 6.3 Quality of Water in the Region	clean, dirt	Textbook pages: 158 - 161 (10 points for each objective)	Classification and multiple choice tests: Classify given practices as causes of unclean or clean water. Give reasons why given practices are causes of unclean water.	Analyse Students should be able to use parts of information to understand relationship between given practices and unclean water.	
6 Water in Our Region	13	Importance of Water for Life Activities: 6.4 Water Uses in Daily Life	importance, use, transportation, fisheries, drinking, washing, water cycle	Textbook pages: 162 - 169 (10 points for each objective)	True of false tests: Classify given practices of using water as right or wrong and give reasons why.	Analyse Students should be able to use parts of given information to understand relationship between given practices and unclean water.	
7 Air around us.	14	Components and Importance of Air Activities: 7.1 The Composition of Air.	importance, use, weather, cooler, warmer, rise, fall, air, gases, wind, components of air, oxygen, nitrogen, carbondioxide, hydrogen, dust, particles	Textbook pages: 139 - 142 workbook pages: 172 - 179 (10 points for each objective)	Recognition tests: Listing the various components of air.	Remember Students should be in position to recall and list the components of air. Students should be able to recall and outline uses of air as well as describe how air interacts with certain objects.	6:Sc6.1:2 Search for data and discuss the components of air and the importance of air.



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7	15	Properties of Air				Remember	
Air around us.		Activities: 7.3 Properties of Air	form, mass, property, space, force, direction	Textbook pages: 180 - 184 (10 points for each objective)	Recognition and completion tests: List the various uses of air. Explain the interaction of air with objects in give scenarios.	Students should be able to recall and outline properties of air.	
7	16	Temperature and Movement of Air				Analyse	
Air around us.		Activities: Measuring Air Temperature Using a Thermometer. 7.4 Temperature and the Movement of Air	cold, hot, warm, weather, sun, moon, rotation, orbit, rising, setting, noon, afternoon, morning, new crescent, new half, new gibbous, full, old gibbous, old half, old crescent, new moon.	Textbook pages: 185 - 195 (10 points for each objective)	Completion tests: Analyze given diagrams and explain the result.	Students should be able to use parts of information to explain relationship between temperature and air movement.	6:Sc6.1:3 Experiment and explain the motion of air resulting from differences in temperature.



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8 Motions of the Sun and the Moon	17	The Rising and Setting of the Sun and the Moon Activities: 8.1 The Phenomena Caused by the Rotation of the Earth. 8.1.2 Day and Night 8.2 Directions	sunlight, noon, earth, daytime, night-time, rotation, northern hemisphere, southern hemisphere, axis, direction, east, west, north, south	Textbook pages: 198 - 213 (10 points for each objective)	True or false and completion tests: Estimate the time in given pictures. Identify directions according to given instructions.	Apply Students should be able to use the position of the sun to estimate the time of day as well as tell directions.	7:Sc7.1:1 Observe and explain the rising and setting of the sun, the moon, causes of day and night and setting of directions
Review for end term exam	18	Review For End Of Term Exam. Review Of Units, 6, 7 And 8.	units, 6, 7 and 8 vocabulary, outline, encircle, space, instruction, answersheet, question	N/A	N/A	N/A	
Final exam	19	Final Exam Students Do Final Exam	N/A	Final examination paper 30 points	N/A	N/A	
	20	Activities:					