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Most Essential Learning Competencies (MELCs)



			Enumerate what to do before, during and after earthquake and volcanic eruptions	Week 2	S6ES-IVb-2
	weather patterns and seasons in the Philippines:		Describe the different seasons in the Philippines	Week 3	S6ES-IVc-3
	the earth's rotation and revolution		Differentiate between rotation and revolution and describe the effects of the Earth's motions	Week 5-6	
	characteristics of planets in the solar system		Compare the planets of the solar system	Week 7-8	S6ES-IVg-h-6
			Construct a model of the solar system showing the relative sizes of the planets and their relative distances from the Sun	Week 8	S6ES-IVi-j-7

Grade Level: Grade 7

Subject: Science

Quarter	Content Standard	Performance Standard	Most Essential Learning Competencies	Duration	K to 12 CG Code
	<i>The learners demonstrate understanding of...</i>	<i>The learners should be able to...</i>			
1st	scientific ways of acquiring knowledge and solving problems	perform in groups in guided investigations involving community-based problems using locally available materials	Describe the components of a scientific investigation	Week 1	S7MT-Ia-1
	classifying substances as elements or compounds	make a chart, poster, or multimedia presentation of common elements showing their names, symbols, and uses	Recognize that substances are classified into elements and compounds	Week 2-3	S7MT-Ig-h-5
	the properties of substances that distinguish them from mixtures	investigate the properties of mixtures of varying concentrations using available materials in the	Distinguish mixtures from substances based on a set of properties	Week 4-5	S7MT-Ie-f-4

		community for specific purposes			
	some important properties of solutions	prepare different concentrations of mixtures according to uses and availability of materials	Investigate properties of unsaturated or saturated solutions	Week 6	S7MT-Ic-2
			Express concentrations of solutions quantitatively by preparing different concentrations of mixtures according to uses and availability of materials	Week 7	S7MT-Id-3
2nd	the parts and functions of the compound microscope	employ appropriate techniques using the compound microscope to gather data about very small objects	Identify parts of the microscope and their functions	Week 1	S7LT-IIa-1
			Focus specimens using the compound microscope	Week 2	S7LT-IIb-2
	the different levels of biological organization		Describe the different levels of biological organization from cell to biosphere	Week 3	S7LT-IIc-3
	the difference between animal and plant cells		Differentiate plant and animal cells according to presence or absence of certain organelles	Week 4	S7LT-IIc-3
			Explain why the cell is considered the basic structural and functional unit of all organisms	Week 4	S7LT-IIe-5
	reproduction being both asexual or sexual		Differentiate asexual from sexual reproduction in terms of: 1 Number of individuals involved; 2 Similarities of offspring to parents	Week 5	S7LT-IIg-7
	organisms interacting with each other and with their environment to survive		Differentiate biotic from abiotic components of an ecosystem	Week 6	S7LT-IIh-9
			Describe the different ecological relationships found in an ecosystem	Week 6	S7LT-IIh-10
			Predict the effect of changes in abiotic factors on the ecosystem	Week 7	S7LT-IIj-12
3rd	motion in one dimension	conduct a forum on mitigation and disaster risk reduction	Describe the motion of an object in terms of distance or displacement, speed or velocity, and acceleration	Week 1-2	S7FE-IIla-1

			Create and interpret visual representation of the motion of objects such as tape charts and motion graphs	Week 3	S7FE-IIIb-3
	waves as a carriers of energy		Infer that waves carry energy	Week 4	S7LT-IIIc-4
			Describe the characteristics of sound using the concepts of wavelength, velocity, and amplitude	Week 4	S7LT-IIId-7
	the characteristics of light	suggest proper lighting in various activities	Explain color and intensity of light in terms of its wave characteristics	Week 5	
	how heat is transferred		Infer the conditions necessary for heat transfer to occur	Week 6	S7LT-IIIf-i-12
	charges and the different charging processes		Describe the different types of charging processes	Week 7	S7LT-IIIj-13
4th	the relation of geographical location of the Philippines to its environment	analyze the advantage of the location of the Philippines in relation to the climate, weather, and seasons	Demonstrate how places on Earth may be located using a coordinate system	Week 1	S7ES-IVa-1
			Cite and explain ways of using Earth's resources sustainably	Week 2	
	the different phenomena that occur in the atmosphere		Discuss how energy from the Sun interacts with the layers of the atmosphere	Week 3	S7ES-IVd-5
			Account for the occurrence of land and sea breezes, monsoons, and intertropical convergence zone (ITCZ)	Week 3	S7ES-IVf-7
	the relationship of the seasons and the position of the Sun in the sky		Using models, relate: 1 the tilt of the Earth to the length of daytime 2 the length of daytime to the amount of energy received 3 the position of the Earth in its orbit to the height of the Sun in the sky 4 the height of the Sun in the sky to the amount of energy received	Week 4-5	S7ES-IVh-9