



Republic of the Philippines
Department of Education
CARAGA REGION

**TABLE OF SPECIFICATION FOR THE DIAGNOSTIC TEST IN EARTH AND LIFE SCIENCE
SY 2022-2023**

MOST ESSENTIAL LEARNING COMPETENCIES	No. of days based on LC Codes	%	No. of Items	Lower-order Thinking Skills		Moderate-order Thinking Skills		Higher-order Thinking Skills	
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				Item Placement					
Recognize the uniqueness of Earth, being the only planet in the solar system with properties necessary to support life. (S11/12ES-Ia-e-3)	1	2%	1	1**					
Explain that the Earth consists of four subsystems, across whose boundaries matter and energy flow. (S11/12ES-Ia-e-4)	1	2%	1					2***	
Identify common rock-forming minerals using their physical and chemical properties. (S11/12ES-Ia-e-9)	2	3%	3			3**			
Classify rocks into igneous, sedimentary, and metamorphic. (S11/12ES-Ib-10)	2	3%		4**, 5**					
Explain how the products of weathering are carried away by erosion and deposited elsewhere. (S11/12ES-Ib-12)	2	3%	3		6**				
Describe where the Earth's internal heat comes from. (S11/12ES-Ib-14)	2	3%		7**	8**				
Describe how magma is formed (magmatism) (S11/12ES-Ic-15)	2	3%	2				9**	10**	
Describe the physical and chemical changes in rocks due to changes in pressure and temperature (metamorphism)	2	3%	3		11**	12*			
Compare and contrast the formation of the different types of igneous rocks (S11/12ES-Ic-18)	2	3%				13*			



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Explain how the movement of plates leads to the formation of folds and faults (S11/12ES-Id-22)	2	3%	1			14***			
Describe how layers of rocks (stratified rocks) are formed (S11/12ES-le-25)	1	2%	1				15**		
Describe the different methods (relative and absolute dating) to determine the age of stratified rocks (S11/12ES-le-26)	1	2%	1					16*	
Explain how relative and absolute dating were used to determine the subdivisions of geologic time (S11/12ES-le-27)	1	2%	4			17***			
Describe how the Earth's history can be interpreted from the geologic time scale (S11/12ES-le-29)	1	2%		18***					
Describe the various hazards that may happen in the event of earthquakes, volcanic eruptions, and landslides (S11/12ES-lf-30)	2	3%		19**	20***				
Using hazard maps, identify areas prone to hazards brought about by earthquakes, volcanic eruptions, and landslides (S11/12ES-lf-31)	2	3%	5	21***	22**				
Identify human activities that speed up or trigger landslides (S11/12ES-lf-33)	2	3%						23***	
Using hazard maps, identify areas prone to hazards brought about by tropical cyclones, monsoons, floods, or ipo-ipo (S11/12ES-lg-36)	2	3%			24***				
Describe how coastal processes result in coastal erosion, submersion, and saltwater intrusion (S11/12ES-lh-38)	1	2%				25***			
Cite ways to prevent or mitigate the impact of land development, waste disposal, and construction of structures on coastal processes (S11/12ES-li-41)	1	2%	1					26*	
Explain evolving concept of life based on emerging pieces of evidences (S11/12LT-IIa-1)	4	6%	3				27**, 28**	29*	
Describe how unifying themes (e.g., structure and function, evolution, and ecosystems) in the study of life show the connections among living things and how they interact with each other and with their environment (S11/12LT-IIa-3)	4	6%	3			30***	31*, 32**		

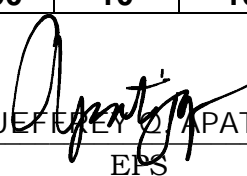
Describe the different ways of how representative animals reproduce (S11/12LT-Ilej-15)	4	6%	3	33**, 34***	35*				
Describe the process of genetic engineering (S11/12LT-Ilej-17)	2	3%	3		36*				
Evaluate the benefits and risks of using GMOs (S11/12LT-Ilej-19)	2	3%		37*	38*				
Describe the general and unique characteristics of the different organ systems in representative animals (S11/12LT-IIIaj- 21)	4	6%	3			39***	40***	41***	
Analyze and appreciate the functional relationships of the different organ systems in ensuring animal survival (S11/12LT-IIIaj- 22)	4	6%	3			42***	43***	44*	
Explain how populations of organisms have changed and continue to change over time showing patterns of descent with modification from common ancestors to produce the organismal diversity observed today (S11/12LT-IVfg- 26)	2	3%	3		45**	46*			
Describe how the present system of classification of organisms is based on evolutionary relationships (S11/12LTIVfg-27)	2	3%					47**	48*	
Categorize the different biotic potential and environmental resistance (e.g., diseases, availability of food, and predators) that affect population explosion (S11/12LT-IVhg- 29)	4	6%	3				49*	50***	
Total	64	100%	50	10	10	10	10	10	

Legend: *Problem Solving; **Information Literacy; ***Critical Thinking

Prepared by:


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