



Republic of the Philippines
Department of Education
CARAGA REGION

**TABLE OF SPECIFICATION FOR THE DIAGNOSTIC TEST IN EARTH 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	
				Rem	Und	App	Ana	Eval	Cre
				Item Placement					
Describe the characteristics of Earth that are necessary to support life (S11ES-Ia-b-3)	4	7	4		1	2**	3	4***	
Explain that the Earth consists of four subsystems, across whose boundaries matter and energy flow (S11ES-Ib-4)	2	3	1	5					
Identify common rock-forming minerals using their physical and chemical properties (S11ES-Ib-5)	2	3	1		6**				
Classify rocks into igneous, sedimentary, and metamorphic (S11ES-Ic-6)	1	2	1			7			
Identify the minerals important to society (S11ES-Ic-7)	1	2	1				8**		
Describe how ore minerals are found, mined, and processed for human use (S11ES-Ic-d-8)	2	3	1					9***	
Describe how fossil fuels are formed (S11ES-Id-10)	2	3	2	10		11**			
Explain how heat from inside the Earth (geothermal) and from flowing water (hydroelectric) is tapped as a source of energy for human use (S11ES-Ie-11)	4	7	4	12	13		14**	15**	
Identify the various water resources on Earth (S11ES-If-g-15)	2	3	2			16**		17***	



Address: J.P. Rosales Avenue,
Butuan City
Trunkline No: (085) 342-8207
Telefax No: (085) 342-5969
Email: caraga@deped.gov.ph



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Explain how different activities affect the quality and availability of water for human use (S11ES-Ig-16)	2	4	2	18			19		
Identify human activities, such as farming, construction of structures, and waste disposal, that affect the quality and quantity of soil. (S11ES-Ih-17)	4	7	4		20	21**	22***	23**	
Give ways of conserving and protecting the soil for future generations (S11ES-Ih-i-18)	2	3	1	24					
Describe how people generate different types of waste (solid, liquid, and gaseous) as they make use of various materials and resources in everyday life (S11ES-Ii-19)	2	3	1		25**				
Explain how different types of waste affect people's health and the environment (S11ES-Ii-j-20)	2	4	2			26	27**		
Describe how rocks undergo weathering (S11ES-IIa-22)	2	4	2	28				29**	
Explain why the Earth's interior is hot (S11ES-IIa-22)	1	2	1		30***				
Describe what happens after magma is formed (S11ES-IIa-22)	1	2	1			31**			
Describe the changes in mineral components and texture of rocks due to changes in pressure and temperature (metamorphism) (S11ES-IIc-d-26)	2	4	2				32	33***	
Describe how rocks behave under different types of stress such as compression, pulling apart, and shearing (S11ES-II-d-27)	2	4	2	34	35				
Explain how seafloor spreads (S11ES-II-f-32)	1	2	1			36			
Describe the structure and evolution of ocean basins (S11ES-II-f-33)	2	4	2				37***	38***	



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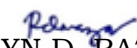
Explain how the movement of plates leads to the formation of folds, faults, trenches, volcanoes, rift valleys, and mountain ranges (S11ES-IIg-h-34)	2	4	2	39	40				
Describe how layers of rocks (stratified rocks) are formed (S11ES-IIh-35)	2	4	2			41**	42**		
Describe the different methods (relative and absolute dating) of determining the age of stratified rocks (S11ES-IIh-i-36)	2	4	2	43				44	
Explain how relative and absolute dating were used to determine the subdivisions of geologic time (S11ES-IIIi-37)	2	4	2		45	46			
Describe how index fossils (also known as guide fossils) are used to define and identify subdivisions of the geologic time scale (S11ES-IIj-38)	2	4	2				47**	48***	
Describe the history of the Earth through geologic time (S11ES-IIj-39)	2	4	2	49	50				
Total	55	100%	50	10	10	10	10	10	

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

Prepared by:


SUNDAE CARMEL S. BASUBAS
Position, SDO (Test Curator)

Checked by:


RELYN D. RAZA, PhD
EPS, Science



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