6th Grade Science 1st Semester Mid-Term Assessment Eagles Landing Middle School

<u>Directions</u>: DO NOT WRITE ON THIS TEST! Write in the letter of the correct answer on your answer document.

Unit 1: Natural Resources

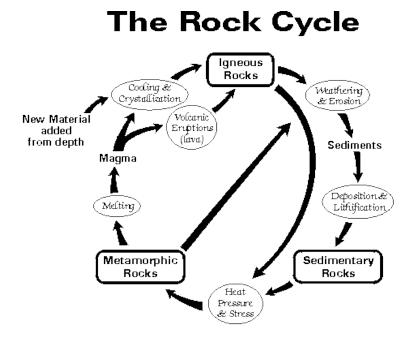
1.	(S6E5t	b) The properties of a mineral depend on					
		The type of mineral	c. The size of the miner	al			
	b.	The number of minerals	d. All of the above				
2.	(S6E5t	b) An example of a property of a mineral	is .				
		How common it is	c. Where it is found				
	b.	How it reacts with acid	d. How much it costs				
3.	· •) Which alternative source of energy uses Geothermal b. solar		•			
4.	(S6E5i) Geothermal energy is possible when the	ere is				
	(2012ej a.	Wind b. coal	c. oil.	D. magma			
5.	a.	b) Which of the following is made from o Newspaper Cotton shirt	r uses a nonrenewable res c. Aluminum baseball b d. Fish				
6.	(S6E6b)	Which product is made from a renewabl	e resource?				
		A newspaper b. aluminum baseball b		d. jewelry			
			6	5			
Unit 2	Rocks	& Minerals					
7.	(S6E5t	b) Moh's scale is used to test a mineral's	·				
		Magnetism	c. Hardness				
	b.	Color	d. Reaction with acid				
8.	(S6E5c	6E5c) Which one of the following words is used to classify rocks based on how they form?					
		Igneous	c. Granite				
	b.	Mineral	d. Transparent				
9.	(S6E5c	c) Igneous rocks form from					
	a.	Layers of sediment being cemented togo	ether	c. Cooling magma			
	b.	Heat and pressure causing types of rock	s to change form	d. All of the above			
10.	(S6E5c	c) Sedimentary rocks form from					
		Layers of sediment being cemented togo	c. Cooling magma				
	b.	Heat and pressure causing types of rock	s to change form	d. All of the above			
11.	(S6E5c	c) Metamorphic rocks form from					
		Layers of sediment being cemented togo	ether	c. Cooling magma			
		Heat and pressure causing types of rocks to change form		d. All of the above			
12.	(S6E5c	c) Which of the following is a metamorph	nic rock?				
	à.	Granite	c. sandstone				
	b.	limestone	d. marble				

13. (S6E5c) Which kind of rock forms from material that has been weathered, eroded, and deposited?

a. Igneous

- c. Sedimentary
- b. Metamorphic d. lava
- 14. (S6E5d) Which of the following statements is TRUE?
 - a. All minerals are made of rocks. c. All rocks are made of minerals.
 - b. Rocks and minerals are the same. d. All of the above
- 15. (S6E5d) Which of the following statements is TRUE?
 - a. Rocks can break down into sediments
 - b. Rocks can change from sedimentary to metamorphic d. A
- 16. (S6E5d) Which type of rock is MOST LIKELY to contain fossils?
 - **a.** Metamorphic c. Igneous
 - **b.** Sedimentary d. All rocks can have fossils

Use the diagram below to answer questions 17-19.



17. The rock cycle describes how rocks:

- a. Change over time c. form
- b. Are destroyed d. all of the above
- 18. In order for a metamorphic rock to become an igneous rock, it must
 - a. Melt and cool c. weather and erode
 - b. Undergo heat and pressure d. become sediment
- 19. A rock that has been weathered and eroded becomes _____
 - a. Magma c. sediment
 - b. Igneous d. metamorphic

Unit 3: W.E.D.

- 20. (S6E5f) Slump, Creep, Rockslide, & Mudflow are all examples of erosion caused by
 - a. Water c. Ice
 - b. Gravity d. Wind

- c. New rocks form over time
- d. All of the above

21. (S6E5f) What shape do glacier-created valleys have?

- a. V-shape c. U-shape
- b. L-shape d. C-shape
- 22. (S6E5f) Which term is an example of a feature created as a result of deposition?
 - a. Cirque c. Gully b. U-shaped valley d. Dune
- 23. (S6E5f) Where would you expect to find the MOST fertile soil?
 - a. on top of a mountain c. on a sand dune
 - b. at the mouth of a river d. on the side of a canyon
- 24. (S6E5i) How do humans contribute or add to the erosion of Earth's surface?
 - a. Deforestation c. farming
 - b. Construction d. all of the above
- 25. (S6E5j) A windbreak helps conserve

a.	Soil	c. Trees
b.	Water	d. Air

- 26. (S6E5d) What causes a sand dune to move from one place to another?
 - a. Wind c. tides b. Waves
 - d. running water
- 27. (S6E5d) Which is the **BEST** definition of weathering?
 - a. settling of earth materials when water slows down
 - b. swelling of earth materials as they soak up water
 - c. cracking of rocks from wind, water, plants, or animals
 - d. transport of earth materials by wind, water, or ice

Unit 4: Soil

Plant #	Liters of Water	Plant Appearance
1	2	dry, yellow leaves
2	3	limp, leaves dropping
3	5	green, healthy
4	7	green, healthy

28. (S6CS3d) Which plant(s) is/are NOT receiving enough water to help them grow? a. Plant 1 & 2 b. Plant 3 c. Plants 3 & 4 d. Plants 1 & 4

29. (S6CS3d) What will a plant look like that only receives 2 liters of water per week? a. limp, leaves dropping b. green, healthy c. dry, yellow leaves d. dead

- 30. (S6E5h) Beginning at the surface of the earth, what is the correct order of soil layers?
 - a. Topsoil, subsoil, parent material, bedrock
 - b. Topsoil, parent material, bedrock, subsoil
 - c. Subsoil, topsoil, parent material, bedrock
 - d. Topsoil, subsoil, bedrock, parent material

31. (S6E5h) Which soil horizon often has a dark color because of the presence of humus?

- a. E horizon
- c. C horizon b. B horizon d. A horizon
- 32. (S6E5h) As minerals in soil are dissolved by acids, they are carried from the A horizon to the B horizon by the process of
 - a. Oxidation c. Mechanical erosion
 - b. Leaching d. Humus
- 33. (S6E5j) What is done to reduce soil erosion on steep slopes?
 - a. No-till farming c. Contour farming
 - b. Terracing d. Grazing
- 34. (S6E5i) What factors such as human activity contributed to the Dust Bowl of the 1930s?
 - a. Drought and strong winds
 - b. Farmers cleared the land for farming.
 - c. Planting the same crops every year caused the soil to lose its nutrients.
 - d. All of the above

35. (S6CS6c) According to the table below, which horizon in this soil has the lowest percentage of silt?

- a. A horizon
- b. B horizon
- c. C horizon
- d. R horizon

Horizon	Percent			
	Sand	Silt	Clay	
A	16,2	54.4	29.4	
В	10,5	50.2	39.3	
C	31.4	48.4	20.2	
R (bedrock)	31.7	50.1	18.2	

Texture Data for a Soil Profile

Unit 3: Inside the Earth

- 36. (S6E5a) What are the two main elements found in Earth's crust?
 - a. Iron & magnesium c. Iron & nickel
 - b. Silicon & oxygen d. Silicon & iron
- 37. (S6E5a) What are the two main elements found in Earth's core?
 - a. Iron & magnesium c. Iron & nickel
 - b. Silicon & oxygen d. Silicon & iron
- 38. (S6E5a) A convection current of magma is made up of
 - a. A rising more dense liquid and a sinking less dense liquid
 - b. A rising less dense liquid and a sinking more dense liquid
 - c. Liquids of the same density
 - d. Solids of different densities

39. (S6E5a) In general, how does the temperature AND density of material in Earth's layers change with depth?

- a. It increases with depth c. density does not change with depth b. Density decreases with depth
 - d. density increases, then decreases
- 40. (S6E5a) In Earth's crust, what type of rock is found under the oceans?
 - a. Granite c. granite on top; basalt underneath d. Pumice b. Basalt

- 41. (S6E5a) The thickest layer of the Earth is the
 - a. Crust b. mantle c. outer core
- 42. (S6E5e) What was Alfred Wegener's theory?
 - a. The continents have always been where they are now
 - b. Today's continents were once part of a single land mass that split apart.
 - c. The continents are made of rock.
 - d. The continents will one day join to form a single continent.
- 43. (S6E5g) What can fossils reveal about Earth's past?
 - a. Only changes in Earth's climates over time
 - b. Only changes in Earth's surface features over time
 - c. Changes in Earth's climates and surface features over time
 - d. Present climates and surface features of Earth
- 44. (S6E5g) A fossil of a tropical plant was found on Antarctica. What can you conclude about these findings?
 - a. Antarctica must have been closer to the equator at one time.
 - b. Tropical plants were carried to Antarctica through researchers.
 - c. Tropical plants could have never survived on Antarctica. Data must be incorrect.
 - d. Antarctica experienced a heat wave at one time in history.
- 45. (S6E5g) Which of the following is the best evidence that Earth's continents were once in vastly different positions than they are today?
 - a. Penguins are found only in the Southern Hemisphere
 - b. Fossils of tropical plants are found in Antarctica.
 - c. Volcanoes encircle the Pacific Ocean.
 - d. Major rivers form deltas from continental erosion.

Short Answer: Choose 2 of the following questions to answer on the back of your answer document. Please write the number of the question you choose.

- 46. (S6E6h) Tyler added some soil from his backyard into a test tube with water. He shook the test tube in order to mix the soil. When the soil settled, he noticed that it had separated into layers.
 - a.) Using the information you now know about the particle sizes of weathered rock found in soil, draw a diagram that shows how the water would separate the soil. Label the diagram with the proper ingredients of soil.

d. inner core

- b.) Explain <u>why</u> the components of soil would separate in this manner when water is added.
- 47. Explain how the cooling rate of an igneous rock determines the size of the minerals within it.
- 48. Examine the city information below. Decide which method of producing energy would BEST be used in an area such as this. You may not use fossil fuels. Defend your decision with evidence.

Frontier City is located next to the desert. Average weather conditions for the area are: mostly sunny, very little wind, and very little rain.

49. Draw a diagram of the Earth. Label each layer INCLUDING the lithosphere and asthenosphere.