	Name:	Date:	Pd:
		rth Science Cumulative Exam Stud	
Intro	duction – Unit 1:		
1.	Identify and <u>describe</u> t	he components of the four earth systems.	
	-		
2.	<i>Define</i> a system and <u>e</u>	xplain how earth functions as a system.	
3.	<u>Identify</u> the two major	r sources of energy for all of the earth systems	
4.	Explain what longitud	e and latitude are and how they are used in ma	apping the globe.
5.	Compare and contras	$\underline{t}$ independent and dependent variables.	
6.	<b>Describe</b> what a topog	graphic map is. Name 3 situations in which a to	opographic map would be useful.
7.	Write out the metric p	refixes. Then convert 12345.678kg to hg, Dg,	g, dg, cg, and mg.
8.	Measurement—comp	lete the table below.	
	Quantity	Description	S.I. Unit
	Mass		
	Length		

## **PLATE TECTONICS – Unit 2**:

Volume

Temperature

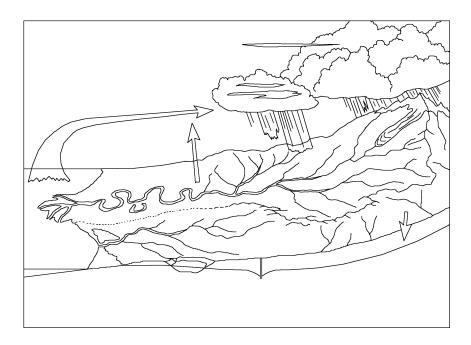
9. <u>Explain</u> the progression from the Continental Drift hypothesis to the theory of Plate Tectonics. Include evidence.

10. <u>Differentiate</u> between the geosphere, lithosphere and asthenosphere.
11. <b>Differentiate</b> between continental and oceanic crust.
12. <u>Explain</u> how convection currents in the mantle drive plate movement.
13. <u>Describe</u> and <u>explain</u> three (3) types of plate boundaries. Include motion, drawings, and feature formed by each.
<del>-</del>
14. <i>Differentiate</i> between the fault, focus and epicenter of an earthquake.
15. <b>Differentiate</b> between P waves, S waves and Surface waves.
16. What is the 'Ring of Fire'?
17. <i>List</i> several factors that influence volcanic eruptions and the shape of the resulting volcano.
ROCKS & MINERALS – Unit 3:  18. List the five (5) characteristics of minerals. Identify the most common mineral group.
19. Identify as many testable properties of minerals (mineral identification tests) as possible.

20. <u><b>Draw</b></u> a diagram of the rock cycle. Indicate types of rock and how they form. Also indicate observable properties.
COLL & BAACC BAOMENTS - Limit 2.
SOIL & MASS MOVEMENTS – Unit 3:  21. <u>Contrast</u> the two (2) types of weathering. <u>Identify</u> several factors that affect the rate of weathering.
22. <u>Describe</u> the process of soil formation, including all four (4) components and specific horizons (profile).
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23. <u>Identify</u> and <u>describe</u> the difference between sand, silt, and clay in terms of particle size, porosity, and permeability. Be sure you understand the Soil Textural Triangle.
24. What factors affect the rate of soil erosion? What is the most erosive force on earth?
25. <u>Identify</u> three (3) human activities that accelerate (speed up) soil erosion.
26. <u>Describe</u> three (3) methods to control soil erosion.
27. <u>Identify</u> and <u>describe</u> the five (5) types of mass movements. What underlying force is behind mass movements?

## FRESHWATER (Rivers, Streams, Groundwater) - Unit 4:

28. On the water cycle illustration below, <u>draw</u> some trees and then <u>label</u> the following terms in the process: evaporation, runoff, transpiration, surface water, condensation, groundwater precipitation, and infiltration.



- 29. How much of the Earth's water is fresh? Where is it located? Name four (4) places.
- 30. How much of the Earth's water is salt water? Where is it located?
- 31. **Define** watershed. How are river basins and watersheds related?
- 32. What limits fresh and salt water ecosystem life?

**Biotic Limitations** –

**Physical Limitations** –

Chemical Limitations -

- 33. **Define** point source pollution. Give two (2) examples.
- 34. **Define** non-point source pollution. Give two (2) examples.