	Name:	
		Pd:
8 th Grade Science Final Example 19 10 10 10 10 10 10 10 10 10 10 10 10 10	m Review	
eason for having a control group in an experiment?		

Scientific Method

1. What is the reason for having a control group in an experiment?

Measuring/Metric System

2.	Define the foll	lowing: temr	perature, mass	density	meter, a	nd volume.
۷.	Definite the following	IOWING. ICIN	Jerature, mass	, uciisity,	mictici, a	na voianic.

- 3. How do you find the volume of a <u>regular object</u>? How do you find the volume of an <u>irregular object</u>?
- 4. Calculate the density of a mineral sample that has a mass of 12 grams and volume of 1.23 cm³.

Inside Earth

5. In the chart below, list the layers of the earth an give the characteristics for each layer.

Earth Layer	Characteristics of the Layer		

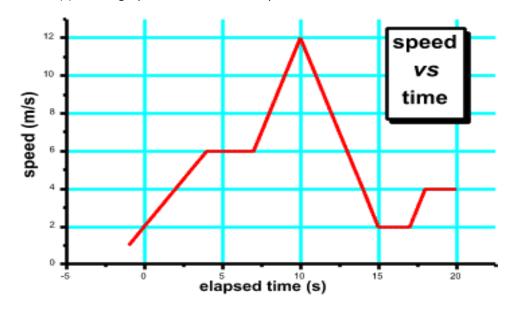
- 6. What are the 3 forms of heat transfer?
- 7. Which heat transfer powers plate tectonics?

	Type of Air Mass	Characteristics of the Air Mass
_		
L		
20.	What weather is associated v	with the word "low" on a weather map?
		·
21.		ove across the United States? (Hint: think about the type of global wind we l
	in North America)	
nomy		
22.	If the top end of Earth's axis i	is pointed toward the sun what is the season?
23.	What does Earth's revolution	a cause?
24.	What does Earth's rotation ca	ause?
25.	What causes tides on Earth?	
	What is a spring tide?	
	what is a spring tide:	
	Neap tide?	
26.	What is an eclipse?	
	What is a solar eclipse?	
	Lunar eclipse?	

28. How does a planets distance from the sun affect its pe	eriod of revolution?
Physical Science	
29. When a battery is in use the stored energy?	energy is converted into
30. On a roller coaster what point does the cart have the	most kinetic energy?
a. at the top c. ½ of the way down b. at the bottom d. ¾ of the way down	
31. When a substance is heated, how does the molecula	r motion change?
32. What does the Law of Conservation of Matter state?	
33. Define an element and give two examples	
34. Define a compound and give two examples	
35. Define a mixture and give two examples	
36. Define a physical change and give two examples	
37. Define a chemical change and list the five signs that a	chemical change has occurred.

27. How long does the moon take to go through all of its phases?

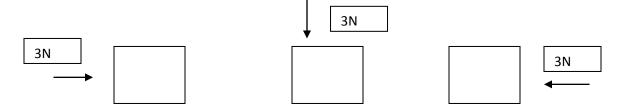
38. What time(s) on the graph shows a constant speed?



- 39. Using the graph above, what time interval was the cyclist moving at the greatest average speed?
- 40. Explain Newton's Three Laws of Motion

A force is acting on each of the objects below.

41. What can be concluded about these forces?



Life Science

- 42. Describe abiotic and biotic factors in an ecosystem
- 43. What is the smallest part of a living thing that performs the basic functions necessary for life?
- 44. Define metabolism.

1a. yellow, orange, red, or pink1b. blue, purple, or green,1c. black, brown, or white2a. yellow or orange2b. pink or red	go to line 2 go to line 16 go to line 24 go to line 3 go to line 11	3b. orange 4a. solid yellow 4b. yellow w/brown spots 4c. yellow w/white or	go to line 7 go to line 5 Banana Lemon drop	
3a. yellow46. Define cellular respiration (go to line 4 including the equation and its po	urpose)		
47. What is photosynthesis? (include the equation)				
48. Define binary fission. Does this type of reproduction produce genetically identical or different offspring from the parent?				
49. What are parasites?				
50. Give an example of an adaptation to a stimulus.				
51. What is the function of the excretory system?				
52. What is heredity?				
53. If a heterozygous red flowe	r is bred with a homozygous blu	e what will the possible offspring	ş be?	
For flower color, Red (F	R) is dominant over Blue (r).			
Make a Punnet square				

List the genotypes and corresponding phenotypes for the offspring.

45. Using the dichotomous key below identify the name of the jelly bean that is yellow with brown spots.