

Name:

Date:

## **8th Grade Science Quarter 3 Exam Review**

### **Life Science:**

1. Organ systems: organs that make them up and function.
2. What is metabolism?
3. What is cellular respiration?
5. What is photosynthesis? Know the formula.
6. Which reproduction, asexual or sexual, produces genetically identical cells?
7. What is the function of DNA?
8. What are abiotic and biotic factors in an ecosystem?
9. Be able to use a dichotomous key to identify an organism.
10. What are the affects of bacteria on humans?
11. Be able to use a punnet square to identify the genotype and phenotype of offspring.
12. What is a food web?

### **Scientific Method:**

13. Be able to identify the parts of an experiment such as the control group or experimental/manipulated group.

### **Astronomy:**

14. What effect does rotation and revolution both have on Earth?
15. What causes tides? What position is the Earth, Moon and Sun in during a Spring tide?
16. What happens to the period of revolution for the planets as they move farther away in position from the sun?
17. How do eclipses occur?
18. How long does it take for the moon to go through all the phases?

### **Physical Science:**

19. At what point on a roller coaster does the car have the most kinetic energy?
20. What happens to molecules in a substance as it is heated?
21. What is an element? A compound?

22. What is the law of conservation of matter?
23. How is density calculated?
24. What is a physical change? A chemical change?
25. What is speed? How can you calculate average speed?
26. What is Newton's second law of motion?
27. Be able to calculate the net force acting on an object.

**Weather & Climate:**

28. What 2 characteristics are used to classify air masses? If an air mass forms over Canada what would you expect the temperature and moisture to be?
29. On a weather map what does the "H" and "L" stand for? What does that tell you about the weather?
30. How does weather move across the United States?
31. In the water cycle where does condensation, precipitation, transpiration and evaporation occur?