

## Science Chapter 1 – Study Guide

### **Chapter 1.1 – Pg 26**

#### **Cell, Reproduce**

1. \_\_\_\_\_ To make more of one's kind, cells.
2. \_\_\_\_\_ Smallest unit of living matter.

### **Chapter 1.1 Cell Pg28-31**

#### **Chloroplast, Cell wall, Nucleus, Mitochondrion, Cytoplasm**

3. \_\_\_\_\_ Jelly-like water that everything floats in.
4. \_\_\_\_\_ Thin coating that keeps everything together.
5. \_\_\_\_\_ Stores food, water, and waste. Plant cells have large ones.
6. \_\_\_\_\_ Still outer structure that protects and supports the plant cell.
7. \_\_\_\_\_ Plant cell's food factory that has chlorophyll, green.
8. \_\_\_\_\_ Controls all cell activities; the brain.
9. Number these in order from smallest to largest –  
tissue, cell, organ system, organ – (P28-30)

### **Chapter 1.2 – Pg 38**

#### **Habitat, Ecosystem**

10. \_\_\_\_\_ The interactions of all living (biotic) and non-living (abiotic) things.
11. \_\_\_\_\_ The place an organism lives in an ecosystem, its home.

#### **Chapter 1**

12. What is the graph on page 53 an example of? If \_\_\_\_\_ synthesize.
13. Look at this graph and decide, where does ALL energy come from? (P53) \_\_\_\_\_
14. What 3 things are taken in by the plant? (P53) \_\_\_\_\_
15. What is given off by the plant? (P53) \_\_\_\_\_
16. What is made by the plant's chloroplasts using sun, water, and nutrients? (P53)
17. On page 54, put these in order, decomposers, consumers, producers.
18. On page 57 food chain, what is at the beginning of the food chain?
19. On page 59 food web, name one animal that is consumed by more than one consumer?
20. What happens if too many deer are competing for the same food?
21. On the back, draw and label the parts of a plant cell.(Page 30-31)
22. On page 60-67, do 1-7 in the right margin.
23. Writing Answer - On page 65, answer questions 9-14 on back.

#### **Predator, Prey**

12. \_\_\_\_\_ An animal that is hunted by other animals.
13. \_\_\_\_\_ An animal that hunts other animals.

### **Chapter 1.3 – Pg 58**

#### **Producers, consumers, decomposers**

14. \_\_\_\_\_ Organisms that break down dead and decaying matter.
15. \_\_\_\_\_ An organism that gets energy by eating other living things.
16. \_\_\_\_\_ Organisms that make their own food, plants.

#### **Herbivores, omnivores, carnivores**

17. \_\_\_\_\_ An animal that only eats animals.
18. \_\_\_\_\_ Animals that only eat producers, or plants.
19. \_\_\_\_\_ An animal that eats producers (plants) and consumers (animals).

#### **Food chain, energy pyramid, food web**

20. \_\_\_\_\_ Path of energy in multiple food chains, like a web.
21. \_\_\_\_\_ Path of energy from one organism to another in the form of food, in a straight line.
22. \_\_\_\_\_ A model showing the amount of energy at each level of the food chain.

# Macmillan 4th Grade Science Study Guide

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