

Brainpop—Metabolism

Name:

Period:

Watch the Brainpop on metabolism, then answer the questions below. You can also use Chapter 5, Section 1 of your textbook if you are getting stuck.

- _____ 1. What is metabolism?
- The body's ability to keep blood circulating through your veins and arteries
 - A series of chemical reactions that keeps organisms living and growing
 - A disease of the digestive system
- _____ 2. Which of these is *not* one of the two types of metabolism?
- catabolic
 - anabolic
 - aerobic
- _____ 3. What do catabolic reactions do?
- make sugars
 - break down food
 - use energy
- _____ 4. What happens during an anabolic reaction?
- small molecules are broken down
 - small molecules are created
 - small molecules combine to form mitochondria
- _____ 5. What kind of metabolism is cellular respiration?
- anabolic
 - aerobic
 - catabolic
- _____ 6. What is glucose?
- a kind of sugar
 - a type of cereal
 - a species of plant
- _____ 7. Where does cellular respiration happen?
- in a cell's mitochondria
 - in a cell's nucleus
 - in a cell's chloroplasts
- _____ 8. Why do organisms need catabolic reactions?
- So food can be broken down and used for energy
 - Because without them, growth would be impossible
 - Both a and b
- _____ 9. What is photosynthesis?
- the way that green plants make glucose
 - the way that animals feed themselves
 - the way that cells get rid of waste
- _____ 10. What do plants absorb from the soil?
- water
 - sugar
 - dirt
- _____ 11. What type of reaction is photosynthesis?
- aerobic
 - catabolic
 - anabolic

Why do animals need to eat their food? *Hint: look at the picture.*

