

Cell Biology

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* a type of metabolism?
- catabolic
 - anabolic
 - aerobic
- _____ 3. What does cellular respiration produce?
- nitrogen, oxygen, and helium
 - glucose, chlorophyll, and oxygen
 - carbon dioxide, water, and energy
- _____ 4. Glucose is a type of ...
- sugar
 - gelatin
 - plant
- _____ 5. Where does cellular respiration happen?
- in a cell's mitochondria
 - in a cell's nucleus
 - in a cell's chloroplasts
- _____ 6. What is photosynthesis?
- the way that green plants make glucose
 - the way that animals feed themselves
 - the way that cells get rid of waste
- _____ 7. What do plants absorb from the soil?
- water
 - sugar
 - dirt
- _____ 8. During an anabolic reaction ...
- small molecules are broken down to create energy
 - small molecules are created to promote cell growth
 - small molecules called ions combine to form mitochondria
- _____ 9. 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
- _____ 10. What type of reaction is photosynthesis?
- aerobic
 - catabolic
 - anabolic



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