

Cell Explorer: Where do you get your energy?

1. A _____ called _____ is the biological _____ that powers everything you do.

Cellular Respiration

2. Below, draw what each of the “major players” looks like in this animation. Use color.
 - Mitochondria
 - Sugars
 - Oxygen
 - ATP, the energy molecule
3. ATP is produced in _____. Mitochondria are like the cell’s tiny energy _____.
4. _____ is like the _____ that powers your body.
5. In this process, the mitochondria use _____ and _____.
6. To make ATP, mitochondria _____ the energy stored in _____.
7. Animals get oxygen from _____, and sugar from _____. (Note: This question is out of order.)
8. When mitochondria break down _____, they release not only energy but _____ and water. (Note: This question is out of order.)

Photosynthesis

9. The energy stored in sugars comes from the _____.
10. Using the sun’s _____, plants turn _____ and _____ molecules into sugar _____.
11. This process releases _____.

The sugar molecules are _____ in plants. When other organisms _____ plants, they can then break down the plant’s _____ to get _____.