

Connect Matter and Energy in Cells



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

Two simplified processes

Photosynthesis uses light energy, carbon dioxide and water to produce sugars and oxygen. Cellular respiration uses sugars and oxygen to release usable energy, producing carbon dioxide and water. Plants carry out both processes. These statements summarize complex pathways.

1. Name two matter inputs to photosynthesis.

2. What is the energy input to photosynthesis?

3. Name two matter outputs of cellular respiration.

4. Do plants perform cellular respiration?

5. Explain how the products of one process connect with the inputs of the other.

6. Is energy endlessly recycled in exactly the same way as matter?
