

Connect Matter and Energy in Cells: Apply and Create



Use the matching sheet ID when checking answers.

Use what you learned to explain, construct or apply an idea.

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

Look for:

- Connects matter without claiming the pathways are identical reversals.

One possible response: Sugars and oxygen from photosynthesis can be used in respiration; carbon dioxide and water can be used in photosynthesis.

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

Look for:

- Distinguishes energy flow from matter cycling.

One possible response: No. Energy is transferred and some becomes less available as heat; organisms require energy input.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.