4.2 Explanations Tool: How does a cell in a fungus use food for energy to move and function?

**The Matter Movement Question**

<table>
<thead>
<tr>
<th>Draw and label</th>
<th>arrows that show molecules moving into, through, and out of a cell in a fungus...</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Show molecules with carbon atoms moving into and out of the cell.</td>
<td></td>
</tr>
<tr>
<td>• Show other relevant molecules.</td>
<td></td>
</tr>
</tbody>
</table>

**Name the chemical change that allows fungal cells to move and function:**

Write the chemical equation for this change:

**The Matter Change Question**

What molecules are carbon atoms in before the chemical change?

What other molecules are needed?

**Chemical Change**

What molecules are carbon atoms in after the chemical change?

What other molecules are produced?

**The Energy Change Question**

What forms of energy go into this chemical change?

**Energy Transformation**

What forms of energy come out of this chemical change?

**Explain in words:** How does a cell in a fungus use food for energy to move and function? (Answer on the back).

*Use this Explanations Tool to help guide your written explanation, being sure to answer the Three Questions.*

Remember: **Atoms last forever** (so you can arrange atoms into new molecules, but can’t add or subtract atoms).

**Energy lasts forever** (so you can change forms of energy, but energy can’t appear or go away).