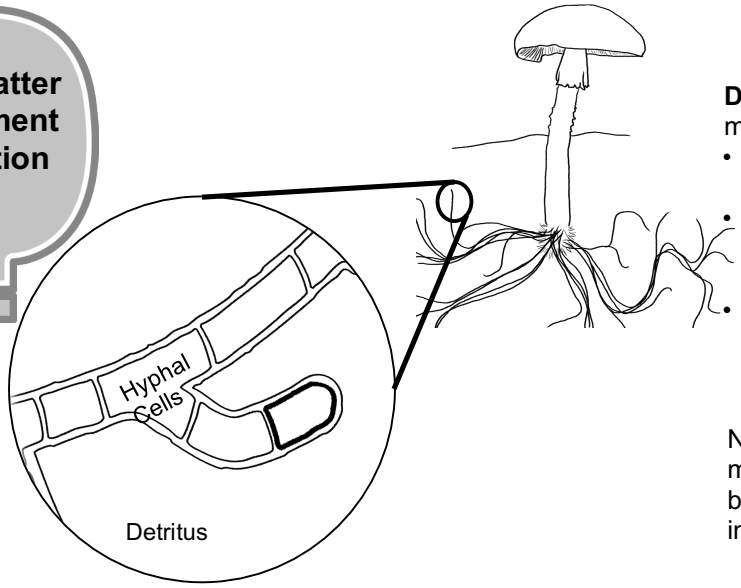
Name: _____ Class: _____ Date: _____

5.3 Explanations Tool: How does a fungus get small organic molecules to its cells?

The Matter Movement Question



Draw and label arrows that show how molecules move from detritus into the fungus.

- Show and label molecules with carbon atoms in detritus.
- Show and label how molecules with carbon atoms move into and through the dark-bordered hyphal cell.
- Show how molecules with carbon move to other cells in the fungus.

Note: fungi produce and release molecules (enzymes) that can break large organic molecules up into small organic molecules.

The Matter Change Question

Name the chemical change that a fungus uses to break down food:

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 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 fungus get small organic molecules to its cells? (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 units can't appear or go away).