



## 19.6

# Ecology of Fungi

### TEKS

11C, 12A

### VOCABULARY

lichen

**KEY CONCEPT** Fungi recycle nutrients in the environment.

### MAIN IDEAS

- Fungi may be decomposers, pathogens, or mutualists.
- Fungi are studied for many purposes.

**TEKS 11C** summarize the role of microorganisms in both maintaining and disrupting the health of both organisms and ecosystems and **12A** interpret relationships, including predation, parasitism, commensalism, mutualism, and competition among organisms.

### Connect to Your World

Fungi just might be the most overlooked and unappreciated organisms on Earth. Fungi grow on shower curtains, spoil food, and cause illnesses in humans. But humans also eat some fungi and use them to make things that range from bread to antibiotics. Perhaps most importantly, these unusual organisms play a major role in every ecosystem on Earth.

**MAIN IDEA** **TEKS 11C, 12A**

## Fungi may be decomposers, pathogens, or mutualists.

Some fungi act as decomposers in the environment. Others act as either pathogens or mutualists to other organisms—including humans.



**FIGURE 6.1** Fungi produce enzymes that help break down the complex molecules in wood to simpler molecules that fungi can absorb and use.

### Fungi as Decomposers

Fungi and bacteria are the main decomposers in any ecosystem. Fungi, such as those shown in **FIGURE 6.1**, decompose dead and decaying organic matter such as leaves, twigs, logs, and animals. They return nutrients such as carbon, nitrogen, and minerals back into the soil. Because of the large surface area of their mycelia, fungi are well adapted for absorbing their food and can recycle nutrients quickly. This constant cycling of nutrients helps enrich soil with organic compounds. The nutrients can then be taken up by other organisms.

Plants and animals could not survive without the activity of decomposers. The ability of fungi to break down tough plant materials such as lignin and cellulose is especially important in woodland ecosystems. Fungi are the main decomposers of these hard parts of plants, which cannot be used by animals without being first broken down by decomposers.

The decomposing activity of fungi is not always helpful to humans, however. Fungi can damage fruit trees, and they can also cause damage inside wooden houses and boats. Molds and other fungi inside a house can weaken its walls, and their spores can cause respiratory illness. Homeowners should check for and remove molds that are established in their homes.

## Section 22 Fungi Answers

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