

## 23-1 SECTION REVIEW

1. What are three adaptations of seed plants that enable them to live on land?
2. What are the functions of roots, stems, and leaves?
3. How are xylem and phloem tissues similar? How are they different?
4. **Connection—You and Your World** What is a seed? What are two ways seeds provide food for people?

## 23-2 SECTION REVIEW

1. How do useful adaptations give rise to new plant species?
2. Compare gymnosperms and angiosperms.
3. Which generation is more obvious in seed plants? How do the relative sizes of these generations follow a trend in the evolution of plant reproduction?
4. **Critical Thinking—Applying Concepts** Suppose you found a plant whose leaves have parallel veins and whose flowers have six petals. Is this plant a monocot or a dicot? What is your reasoning?

## 23-3 SECTION REVIEW

1. What is meristematic tissue? Why is it important?
2. What is the function of parenchyma tissue? Sclerenchyma tissue?
3. What are the functions of the two types of vascular tissue?
4. **Critical Thinking—Assessing Relationships** What is the most important type of phloem cell? Why?

## 23-4 SECTION REVIEW

1. Compare a taproot and a fibrous root.
2. Why is it difficult to remove dandelions from a lawn by pulling them out by the leaves?
3. Why do roots need a constant supply of oxygen?
4. What is the importance of root hairs in the absorption of water and nutrients?
5. **Critical Thinking—Making Inferences** Why is it important that the root epidermis permits only a one-way passage of materials?

## 23-5 SECTION REVIEW

1. What are the functions of plant stems?
2. How does vascular tissue contribute to the strength of plant stems?
3. What are tree rings? What important information do tree rings provide?
4. **Critical Thinking—Relating Concepts** How do rhizomes and corns contribute to a plant's survival?

## 23-6 SECTION REVIEW

1. Compare simple leaves and compound leaves. How are these shapes related to solar energy collecting?
2. What is the function of the epidermis and cuticle layers? What is the function of the openings in these layers?
3. Describe the structure and function of mesophyll tissue.
4. **Critical Thinking—Relating Facts** Describe how vascular plants control gas exchange and water loss.