Date _____

Section 24-2 Seed Development and Germination (pages 618-621)

- **C** Key Concepts
 - How do fruits form?
 - How are seeds dispersed?
 - What factors influence the dormancy and germination of seeds?

Seed and Fruit Development (page 618)

- **1.** What is a fruit? _____
- 2. What happens as angiosperm seeds mature after fertilization is complete?

3. The outer layer of the seed that protects the embryo and its food supply is called a(an)

- 4. Is the following sentence true or false? Both cucumbers and tomatoes are fruits.
- 5. Circle the letter of each sentence that is true about fruits.
 - **a.** As seeds mature, the ovary walls thicken to form a fruit.
 - **b.** Fruits can carry one seed or several seeds.
 - c. A fruit is a ripened ovary that encloses a seed or seeds.
 - **d.** The inner wall of the ovary never touches the seed.

Seed Dispersal (page 619)

- 6. Why are seeds that are dispersed by animals typically contained in fleshy nutritious fruits?
- 7. Circle the letter of why seeds dispersed by animals are covered with tough coatings.
 - **a.** The seeds need to be able to float on water.
 - **b.** The coatings enable the seeds to pass through an animal unharmed.
 - c. The seeds need to be digested by the animal that eats them.
 - **d.** The coatings prevent the seeds from being eaten by animals.
- 8. Why are seeds dispersed by wind or water typically lightweight?
- 9. How are the seeds of ash and maple trees dispersed long distances from the parent plants?

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• What adaptation doe	s a coconut seed have that helps i	its dispersal?
eed Dormancy (pa 1. What is dormancy?	age 620)	
germinate?	mental factors that can cause a s	
 What are two purpose a. 	es served by seed dormancy?	
high temperatures gen Seed Germination 5. What is seed germina	(page 621) ation?	tes to open and release the seeds.
6. Complete the flowch	art about seed germination.	
When a seed germin	ates, it absorbs	·
The water causes the	e endosperm to swell, which cracks	open the
(¥)
Through the cracked	seed coat, the young	begins to grow.
17. Circle the letter of ea	ch sentence that is true about see	ed germination.
	e cotyledons protect the first folia	0
	the cotyledon remains within th	
c. In some dicots, the seedling.	e cotyledons remain below the so	bil and provide food for the

d. In most monocots, the cotyledon emerges above ground to protect the leaves.