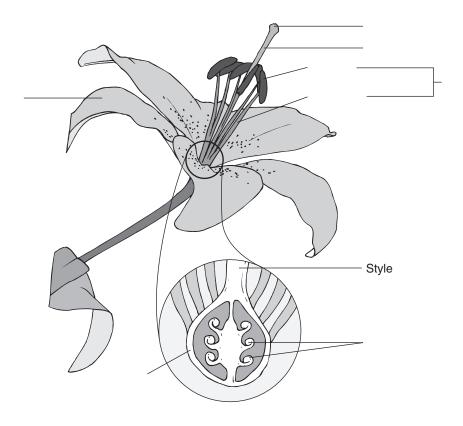
Name	Class	Date
Chapter 24 Reproducti	on of Seed Plants	
Section 24–1 Repr	oduction With Cones ar	nd Flowers (pages 609-616)
TEKS FOCUS: 13B Meth thought and society; 5B Cell of	nods of reproduction; TEKS SUPPORT : differentiation; 7B Results of natural sele	3C Impact of research on scientific ection in adaptation
	productive structures of gymnosperms s how pollination and fertilization diff ms.	
Alternation of Gener	ations (page 609)	
1. Circle the letter of each	h sentence that is true about alterr	nation of generations in plants.
a. In all plants, the sp	orophyte generation is diploid.	
b. The gametophyte is	n seed plants is hidden within the	sporophyte plant.
0 1,	art of a seed-bearing plant is the gai	
	metophyte generation is haploid.	1 7
1 0	plant evolution is the reduction i	n the size
of the		
	phytes found in gymnosperms an	id angiosperms?
		0 1
Life Cycle of Gymno	Sperms (pages 610–611)	
•	osperms takes place in	
-	at produces cones in gymnosperm	
a. mature sporophyte		
	te d. pollen seeds	
	oduces male gametophytes?	
•	es of gymnosperms are called	
· .	h sentence that is true about seed	
a. They produce polle		cores.
b. They produce fema		
• •	iles at the base of each scale.	
·		
, ,	much larger than pollen cones.	nala gamatanhizta cantains
hundreds of egg cells	nce true or false? Each mature fem ready for fertilization.	
10. How long does the gy	mnosperm life cycle typically take	e to complete?

Nar	me Class Date
11.	In the gymnosperm life cycle, how do the pollen grains reach the female cones?
10	
12.	What ensures that pollen grains stay on the scales of a female cone?
13.	A structure grown by a pollen grain that contains two sperm nuclei is called a(an)
14.	What happens to the two sperm cells once the pollen tube reaches the female gametophyte?
15.	Circle the letter of what a gymnosperm embryo can be called.
	a. mature gametophyte
	b. new sporophyte
	c. mature sporophyte
	d. new gametophyte
16.	What are the three generations of the gymnosperm life cycle that are contained in a
	gymnosperm seed?
Ct.	(F1
	ucture of Flowers (pages 612–613)
17.	What are the four kinds of specialized leaves that compose a flower?

Match the floral part with its description.

)	1	1
	Floral Part	Description
	18. Sepals	a. Stalk with the stigma at the top
	19. Petals	b. Structures where male gametophytes are produced
	20. Stamen	c. Flower part that contains one or more ovules
	21. Filament	d. Outermost, green floral parts
	22. Anthers	e. Long, thin structure that supports an anther
	23. Carpels	f. Innermost floral parts that produce female gametophytes
	24. Ovary	g. Sticky, top portion of style
	25. Style	h. Male structure made up of an anther and a filament
	26. Stigma	i. Brightly colored parts just inside the sepals

27. Label the parts of the flower on the illustration.



28. What is a pistil?

29. What are the separate male and female flowers on a corn plant? _____

Nai	me Class Date	
Lif	e Cycle of Angiosperms (pages 614-615)	
30.	Where does reproduction in angiosperms take place?	
31.	Inside the anthers, each cell undergoes meiosis and produces haploid cells called	
32.	In angiosperms, the pollen grain is the entire	
33.	The female gametophyte of an angiosperm, contained within the ovary, is called the	
34.	Circle the letter of each sentence that is true about the life cycle of angiosperms.	
	a. The cycle begins when the mature sporophyte produces flowers.	
	b. A pollen grain stops growing when it is released from the stigma.	
	c. The female gametophyte develops in the ovule.	
	d. The egg nucleus is one of the eight nuclei in the embryo sac.	
Po]	llination (page 615)	
35.	How are most gymnosperms pollinated?	
36.	6. How are most angiosperms pollinated?	
37.	What are three kinds of animals that pollinate angiosperms?	
	tilization in Angiosperms (page 616) What are the two distinct fertilizations that take place in angiosperms? a	
	b	
39.	The food-rich tissue that nourishes a seedling as it grows is known as	

Inside the anthers, each cell undergoes	_ to produce megaspores.		
•			
Each megaspore becomes a(an)			
•			
The nucleus of each pollen grain produces two haploid			
•			

The pollen grain lands on a stigma and begins to grow a(an) ______

that eventually reaches the ovary and enters the ______.

One of the sperm nuclei fuses with the egg nucleus to produce a(an) ______, and the other sperm nuclei fuses with two other nuclei to form a cell that grows into the ______

Reading Skill Practice

Outlining is a way you can help yourself understand better and remember what you have read. Write an outline for Section 24–1, *Reproduction With Cones and Flowers*. In your outline, use the blue headings for the first level and the green subheadings for the second level. Then, list the details that support, or back up, the main ideas.