Flower Pollination

N	ame:	Block:	Date:

Life Cycle of Plants



• **Fertilization**: occurs when the _____ in the _____ unites with an egg.

Two types of pollination:

- 1. *Self pollination* Transfer of pollen from the anther of a flower to the stigma of the ______ flower (or genetically similar).

Agents of pollination

Since plants cannot move, they must rely on pollinators to transfer pollen for them.

- To help ensure this happens, plants have characteristics that help pollinators locate the right flowers.
 - Include _____, ____, and _____ of the flowers, as well as the ______.

What species aid pollination?

Some plants are pollinated by the wind. However, most angiosperms are pollinated by,,			
and	Many of these organisms eat pollen and nectar produced by flowers. As the pollinator travels		
from flower to flower in search of food, pollen is accidently transferred to another flower.			

Why do animals pollinate plants?

- They get a REWARD: food! In exchange for moving their pollen to another flower
 - ______ a sugary solution produced in flower glands called nectaries.
 - _____ is high in protein, some bees and beetles eat it.

Types of Pollinators

Pollinator	Special Characteristic
Wind	Pollinate small flowers with no colors, special or
	 Release amounts of pollen so that some pollen reaches stigma of other plants. <i>Hay fever</i> is being allergic to the in the air.
Honeybees:	Excellent vision but cannot see the colour; can see,, and best.
Butterflies & Moths:	 Butterflies can see and and flowers Flowers usually shaped as long tubes because of insect's proboscis – to get nectar. Moth have good sense of smell and pollinate at night. Flowers usually or, with sweet,
Flies & Beetles:	 Flies like smells and pale colours (dull brown or purple). Beetles pollinate flowers that are in colour (dull white or green), but have very strong odor
Hummingbirds:	Good sight; attracted to and; poor sense of smell
Bats:	Active at; attracted to, odors.

Pollinator: Using the table above, answer questions #1-7 by stating which pollinator would be best suited for pollinating the flower.

- 1. The banana plant has a hanging flower that opens only at night and gives off a musty odor.
- 2. Skunk cabbage releases an odor like that of decayed meat.
- 3. Flower A is bright orange with little fragrance.
- 4. Flower B has small white flowers that open at night and produce sweet scent.
- 5. Flower C is bright yellow with nectar located close to its surface.
- 6. Flower D is bright red with nectar located in long tubes.

Type of pollination:

7. Which type of pollination is most random (wind or using a pollinator)? Explain your answer.

8. Do wind-pollinated or animal-pollinated flowers produce more pollen? Explain your answer.