

Name/Number: _____

Date: _____

Plants Study Guide (Answer Key)

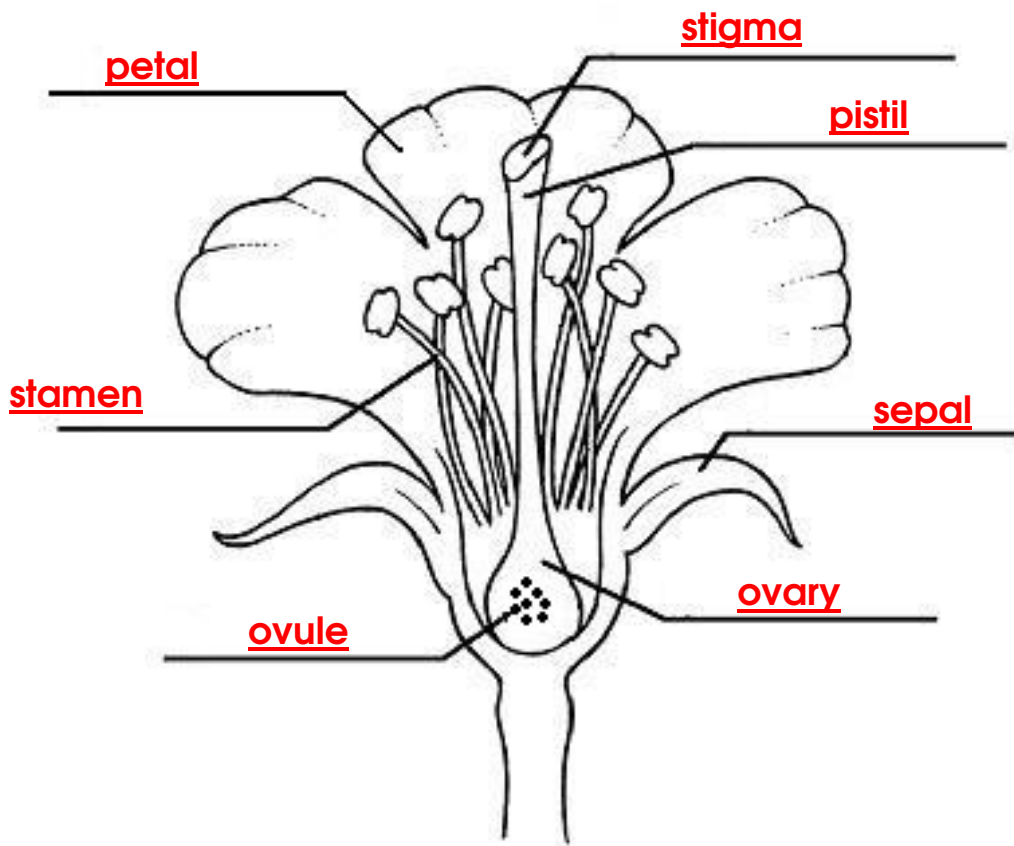
Define each of the following words.

Dormancy: a period of lower activity or suspended life processes brought on by changes in the environment

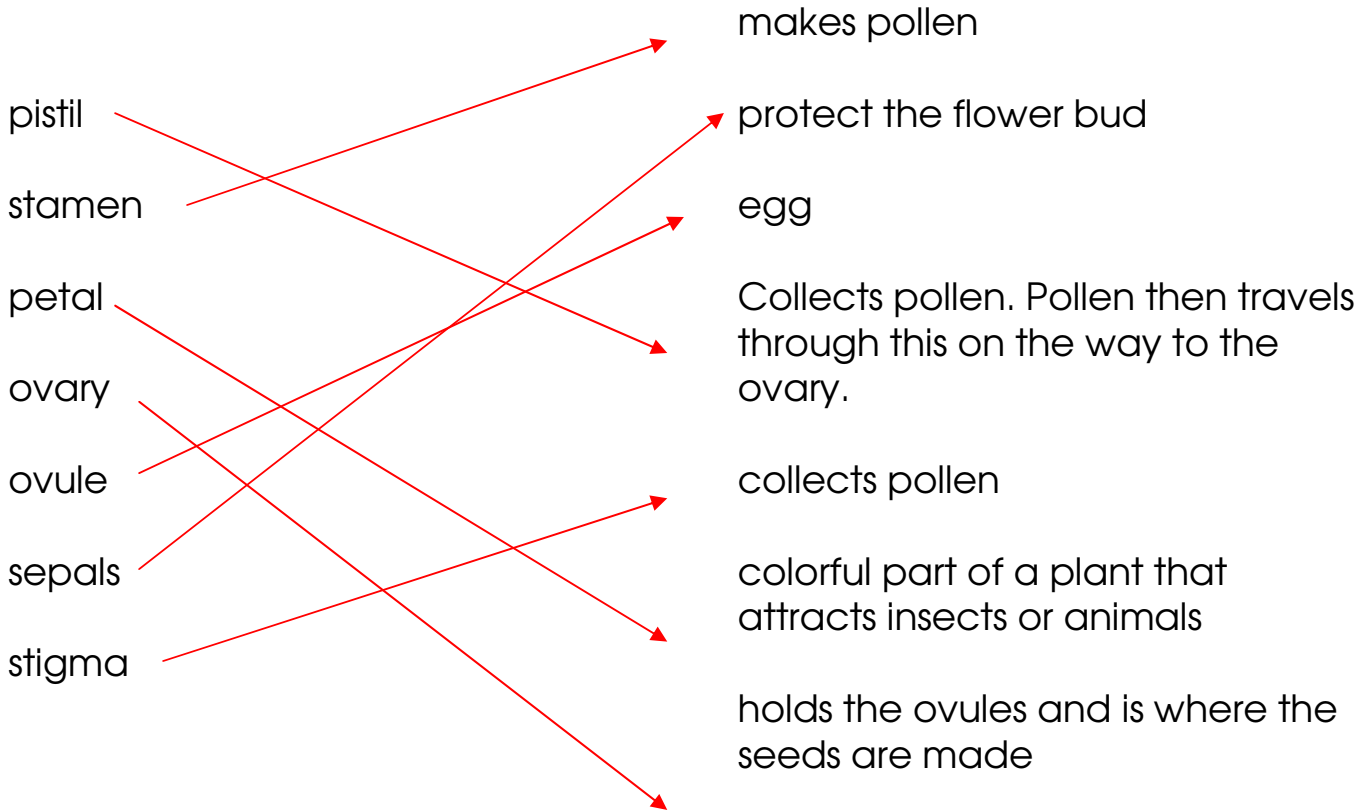
Pollination: part of the reproductive process; the process by which pollen is transferred from the stamens to the stigma

Photosynthesis: the process used by plants to make their own food or sugar;

Label the flower parts.



Match the term with its definition.



List the steps for the process of pollination in order.

- 1 the stamen release pollen
- 2 pollen is transferred from one flower to another
- 3 pollen is collected by the stigma or pistil
- 4 ovule is fertilized
- 5 the seeds form

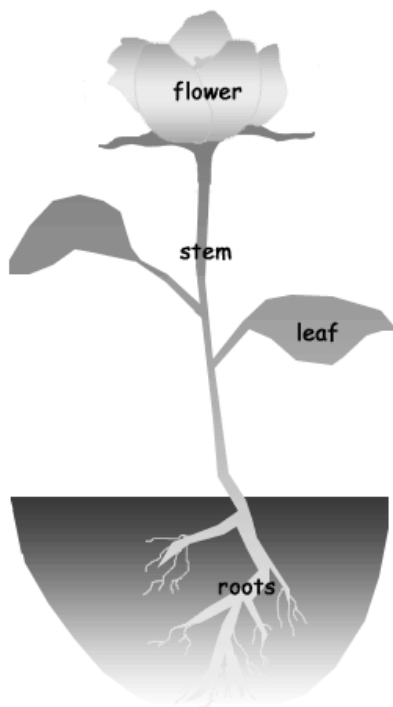
Name three ways pollen is transferred from one flower to another.

Wind/air water insects or animals

The plant kingdom is divided into two parts:

- 1) plants that produce seeds
List examples: pansy, daisy, marigold
- 2) plants that produce spores
List examples: ferns, mosses

Draw and label a flowering plant. Be sure to include the four major parts.



Explain how these parts help plants to survive.

Stem: supports the flower, carries water, food and nutrients throughout the plant

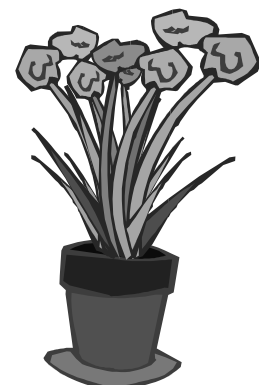
Roots: takes in water and nutrients from the soil; holds the plant in the ground

Leaves: makes food for the plant by the process of photosynthesis; contains chlorophyll to trap sunlight

Flowers: attracts birds, bees and other insects, makes seeds by the process of pollination

What do all plants need to live?

- 1) space
- 2) air
- 3) water
- 4) sunlight
- 5) soil



Describe dormancy. Which plants experience this and what time of year does it happen?

a period of lower activity or suspended life processes brought on by changes in the environment; usually in winter or times of drought; begins in fall when leaves on broad-leafed change colors.

Fill in the blanks with words listed below.

chlorophyll
sugar

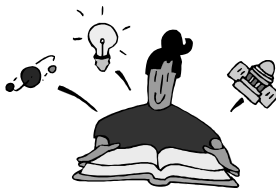
oxygen
carbon dioxide

water
leaves

Green plants produce their own food through the process of photosynthesis. First, chlorophyll traps sunlight. Energy starts the food making process. Carbon dioxide and water are used with other nutrients to make sugar. Oxygen is released into the air.

Essay: What do plants need to carry out the process of photosynthesis?

Plants need four different things in order to carry out the process of photosynthesis. The first thing they need is chlorophyll. Chlorophyll is the green material in plants that helps to trap light energy. The second thing a plant needs for photosynthesis is air. Plants use a gas in the air called carbon dioxide and release oxygen. The third thing plants need for photosynthesis is water. Plants get water from the soil through the roots. The last thing that plants need for photosynthesis is sunlight. Sunlight is the energy for the plants that helps it change carbon dioxide into food for the plant. These are the four things that a plant needs to carry out the process of photosynthesis.



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