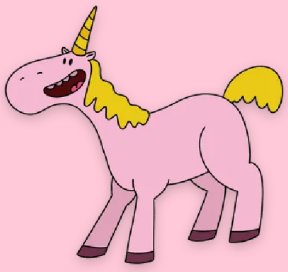
SCIENCE · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 3–5

Parts of a Flower

Label the petal, stamen, pistil, sepal, stem and leaf, then match four parts to their jobs.

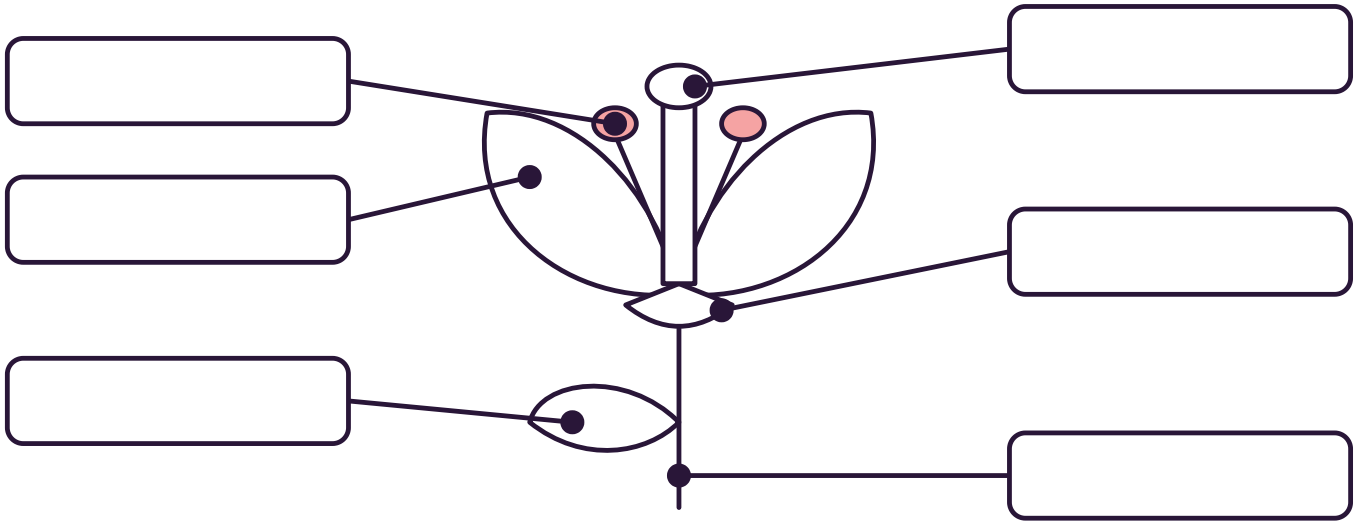
Name: _____ **Date:** _____



Word bank

petal | stamen | pistil | sepal | stem | leaf

1. Write the name of each part.



2. Draw a line from each part to its job.

petal ●	● protects the bud before it opens
stamen ●	● catches pollen and grows the seeds
pistil ●	● bright colors bring bees and butterflies
sepal ●	● makes pollen

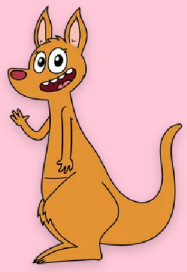
Art © Kevin Coulston

SCIENCE · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–4

How Do Seeds Travel?

Sort nine seeds by how they travel to a new place: wind, water or animals.

Name: _____ **Date:** _____



Plants cannot walk, so their seeds travel to new places to grow. Some **blow in the wind**, some **float on water** and some **ride on animals** or get eaten and dropped far away.

Write each seed under the way it travels.

water lily seed · berry eaten by a bird · coconut · maple "helicopter" · milkweed silk · mangrove pod · burr that sticks to fur · acorn buried by a squirrel · dandelion fluff

Wind	Water	Animals

Invent a seed. How would it travel?

_____

_____

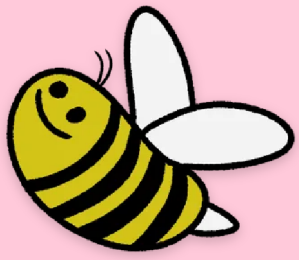
Art © Kevin Coulston

SCIENCE · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–4

How a Bee Pollinates a Flower

Number the five steps of pollination in order, then draw a bee carrying pollen.

Name: _____ **Date:** _____



Pollination is how pollen gets from one flower to another so the flowers can make seeds.

Number the steps from 1 to 5.

- ☐ Pollen sticks to the bee's fuzzy body.
- ☐ The flower can now make seeds.
- ☐ A bee lands on a flower to drink nectar.
- ☐ Some pollen rubs off onto the new flower's pistil.
- ☐ The bee flies to another flower of the same kind.

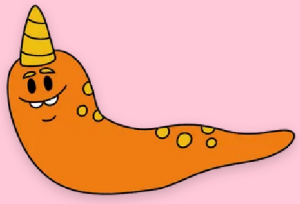
Draw a bee visiting a flower. Show the pollen on the bee.

Art © Kevin Coulston

SCIENCE · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 3–5

How Plants Make Food

Fill in six sentences about photosynthesis, then explain what happens to a plant kept in the dark.



Name: _____ **Date:** _____

Photosynthesis is how a plant makes its own food in its leaves, using light, water and air.

Word bank

carbon dioxide · water · sunlight · chlorophyll · sugar · oxygen

1. Fill in the blanks.

1. Leaves take in _____ from the air through tiny holes.
2. Roots take in _____ from the soil.
3. Leaves use energy from _____ to make food.
4. The green color in leaves, _____, catches the light.
5. The food a plant makes is a kind of _____.
6. Plants give off _____, the gas we breathe.

2. Circle the answer.

A plant kept in a dark closet for weeks would

grow better · not be able to make food

Art © Kevin Coulston

SCIENCE · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–5

Open a Bean Seed

Soak a lima bean, open it, label the seed coat, cotyledon and embryo and draw it up close.

Name: _____ **Date:** _____

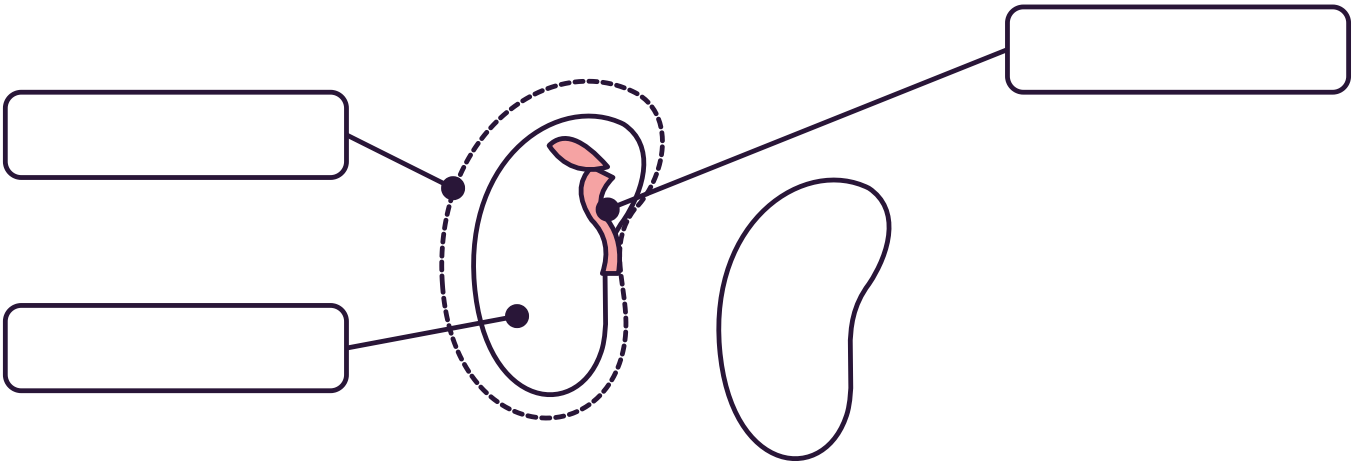


Do it: soak a dry lima bean in water overnight. Gently peel off the thin skin, then split the bean in half with your fingernail. Look closely with a magnifying glass.

Word bank

seed coat | cotyledon | embryo

1. Label the parts of the seed.



2. Draw your seed up close.

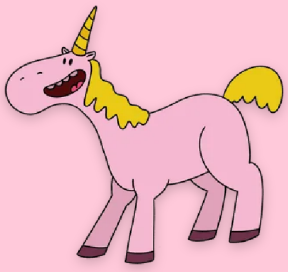
3. The embryo is a tiny baby plant. What do you think the cotyledon does for it?

Art © Kevin Coulston

ANSWER KEY · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 3–5

Answer Key: Parts of a Flower

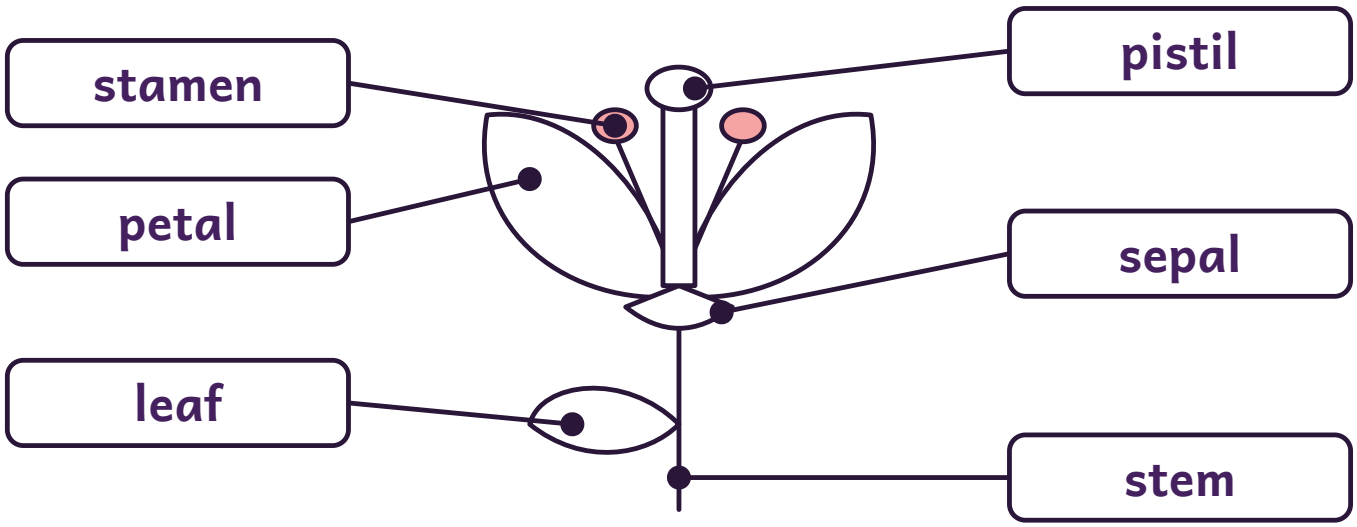
Answers for grown-ups. Some questions have more than one good answer.



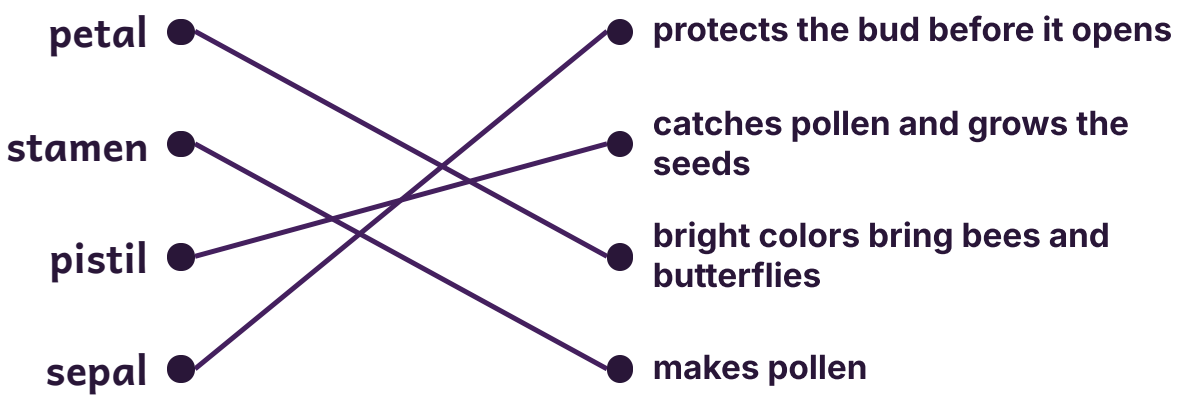
Word bank

petal · stamen · pistil · sepal · stem · leaf

1. Write the name of each part.



2. Draw a line from each part to its job.

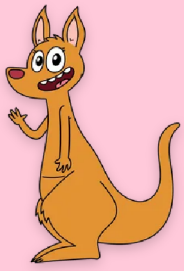


Art © Kevin Coulston

ANSWER KEY · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–4

Answer Key: How Do Seeds Travel?

Answers for grown-ups. Some questions have more than one good answer.



Plants cannot walk, so their seeds travel to new places to grow. Some **blow in the wind**, some **float on water** and some **ride on animals** or get eaten and dropped far away.

Write each seed under the way it travels.

water lily seed · berry eaten by a bird · coconut · maple "helicopter" · milkweed silk · mangrove pod · burr that sticks to fur · acorn buried by a squirrel · dandelion fluff

Wind	Water	Animals
dandelion fluff	coconut	burr that sticks to fur
maple "helicopter"	mangrove pod	berry eaten by a bird
milkweed silk	water lily seed	acorn buried by a squirrel

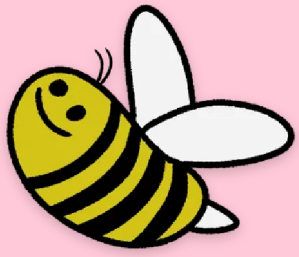
Invent a seed. How would it travel?

Art © Kevin Coulston

ANSWER KEY · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–4

Answer Key: How a Bee Pollinates a Flower

Answers for grown-ups. Some questions have more than one good answer.



Pollination is how pollen gets from one flower to another so the flowers can make seeds.

Number the steps from 1 to 5.

2 Pollen sticks to the bee's fuzzy body.

5 The flower can now make seeds.

1 A bee lands on a flower to drink nectar.

4 Some pollen rubs off onto the new flower's pistil.

3 The bee flies to another flower of the same kind.

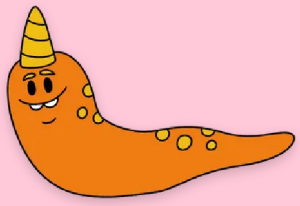
Draw a bee visiting a flower. Show the pollen on the bee.

Art © Kevin Coulston

ANSWER KEY · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 3–5

Answer Key: How Plants Make Food

Answers for grown-ups. Some questions have more than one good answer.



Photosynthesis is how a plant makes its own food in its leaves, using light, water and air.

Word bank

carbon dioxide · water · sunlight · chlorophyll · sugar · oxygen

1. Fill in the blanks.

1. Leaves take in carbon dioxide from the air through tiny holes.
2. Roots take in water from the soil.
3. Leaves use energy from sunlight to make food.
4. The green color in leaves, chlorophyll, catches the light.
5. The food a plant makes is a kind of sugar.
6. Plants give off oxygen, the gas we breathe.

2. Circle the answer.

A plant kept in a dark closet for weeks would

grow better · **not be able to make food**

Art © Kevin Coulston

ANSWER KEY · FLOWERS, SEEDS AND PHOTOSYNTHESIS · GRADES 2–5

Answer Key: Open a Bean Seed

Answers for grown-ups. Some questions have more than one good answer.

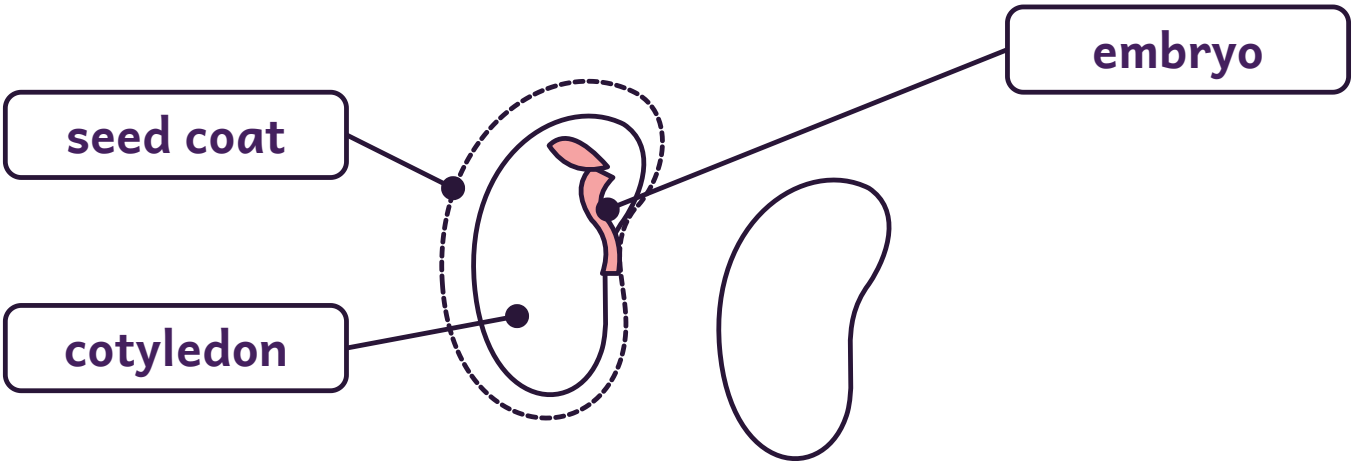


Do it: soak a dry lima bean in water overnight. Gently peel off the thin skin, then split the bean in half with your fingernail. Look closely with a magnifying glass.

Word bank

seed coat · cotyledon · embryo

1. Label the parts of the seed.



2. Draw your seed up close.

3. The embryo is a tiny baby plant. What do you think the cotyledon does for it?

Art © Kevin Coulston