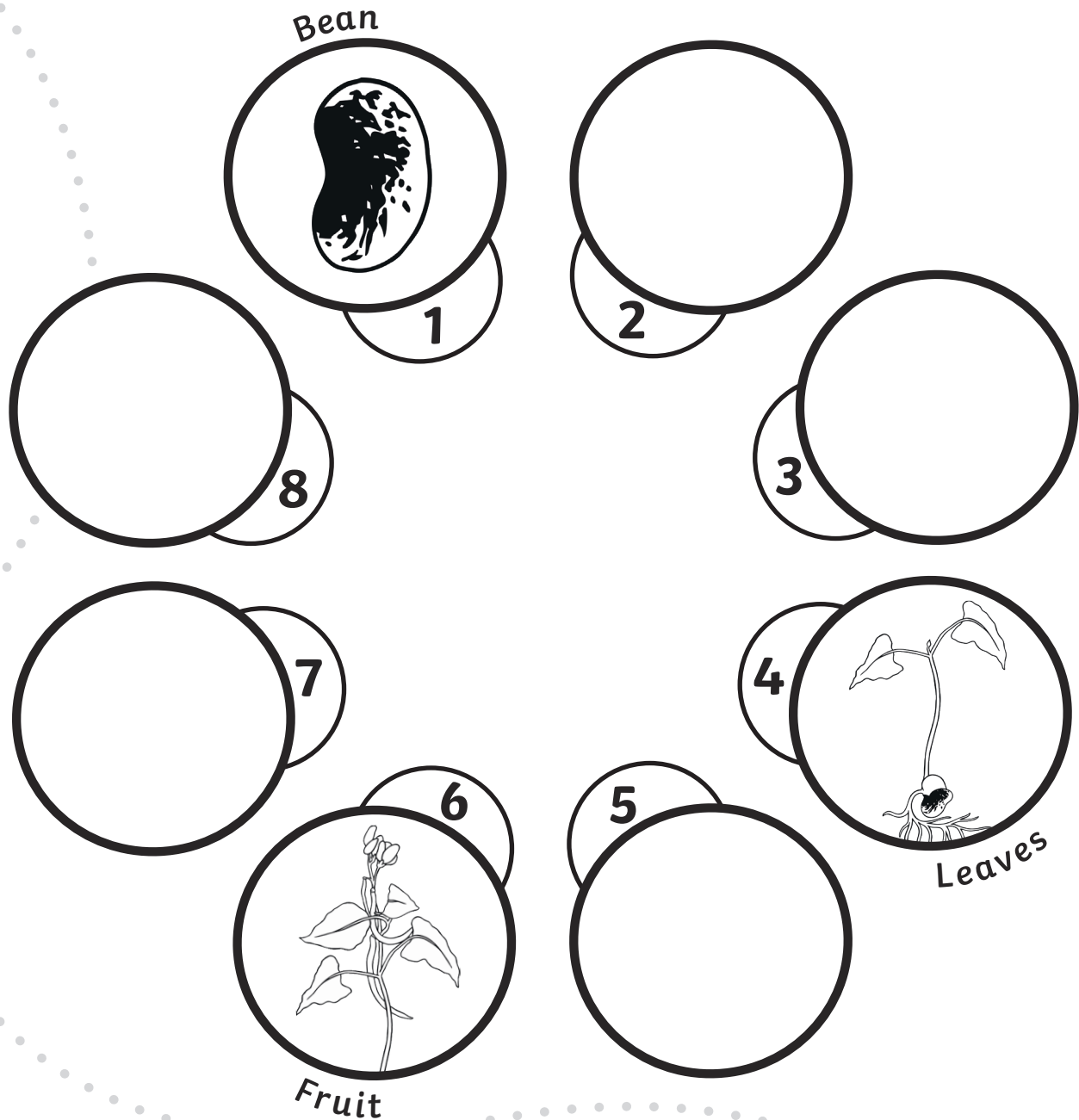


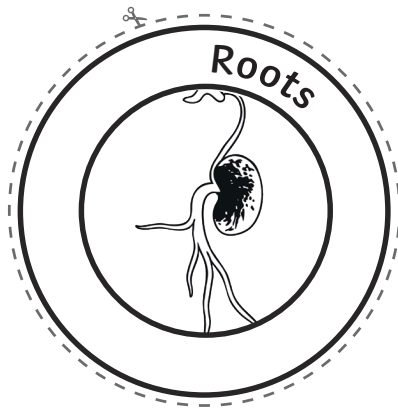
Life Cycle of a Bean Plant

To describe the life cycle of a plant.



Cut out the pictures to complete the bean plant life cycle.



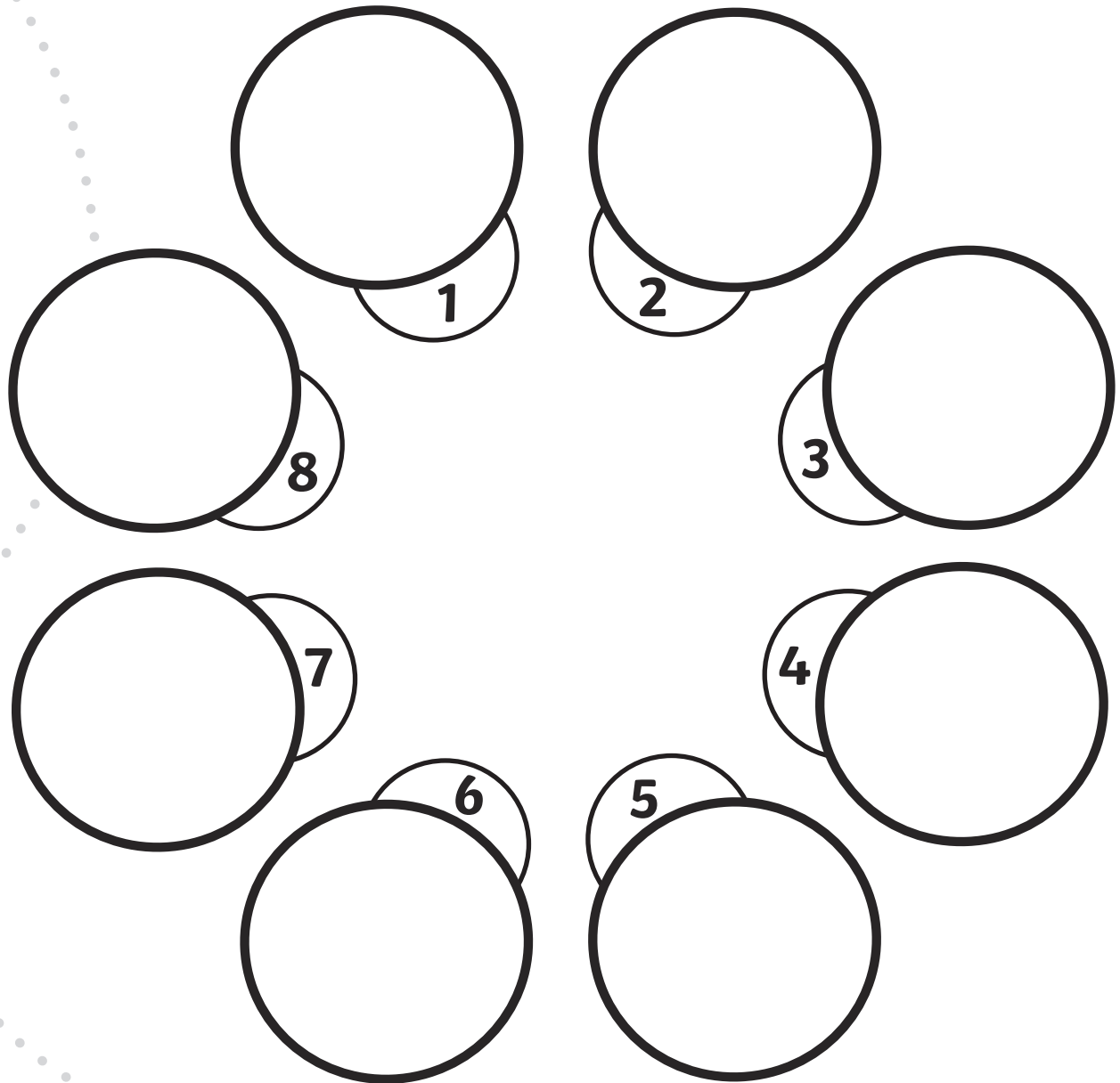


Life Cycle of a Bean Plant

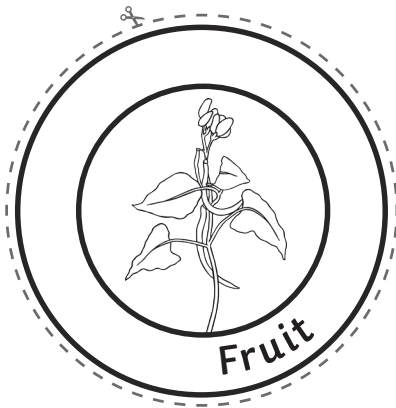
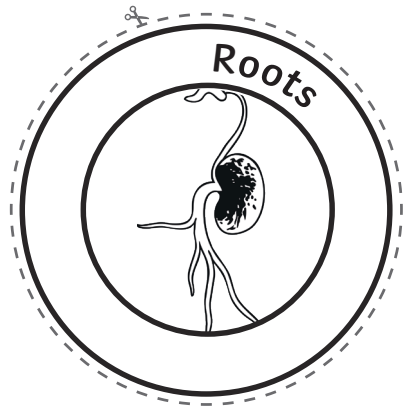
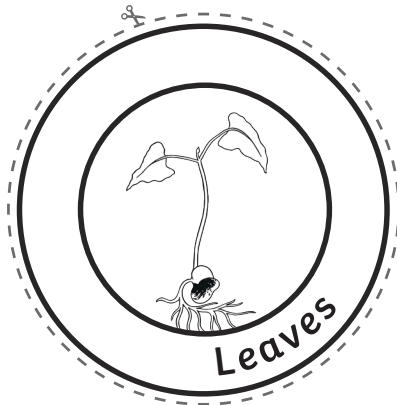
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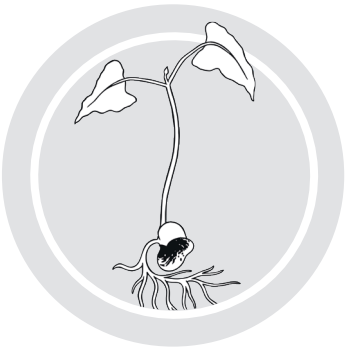
Life Cycle of a Bean Plant



Challenge!

Can you explain what happens during these stages of the plant's life cycle?
Use the word bank to help you.







Word Bank

conditions

water

roots

shoots

grow

bees

stem

leaves

light

food

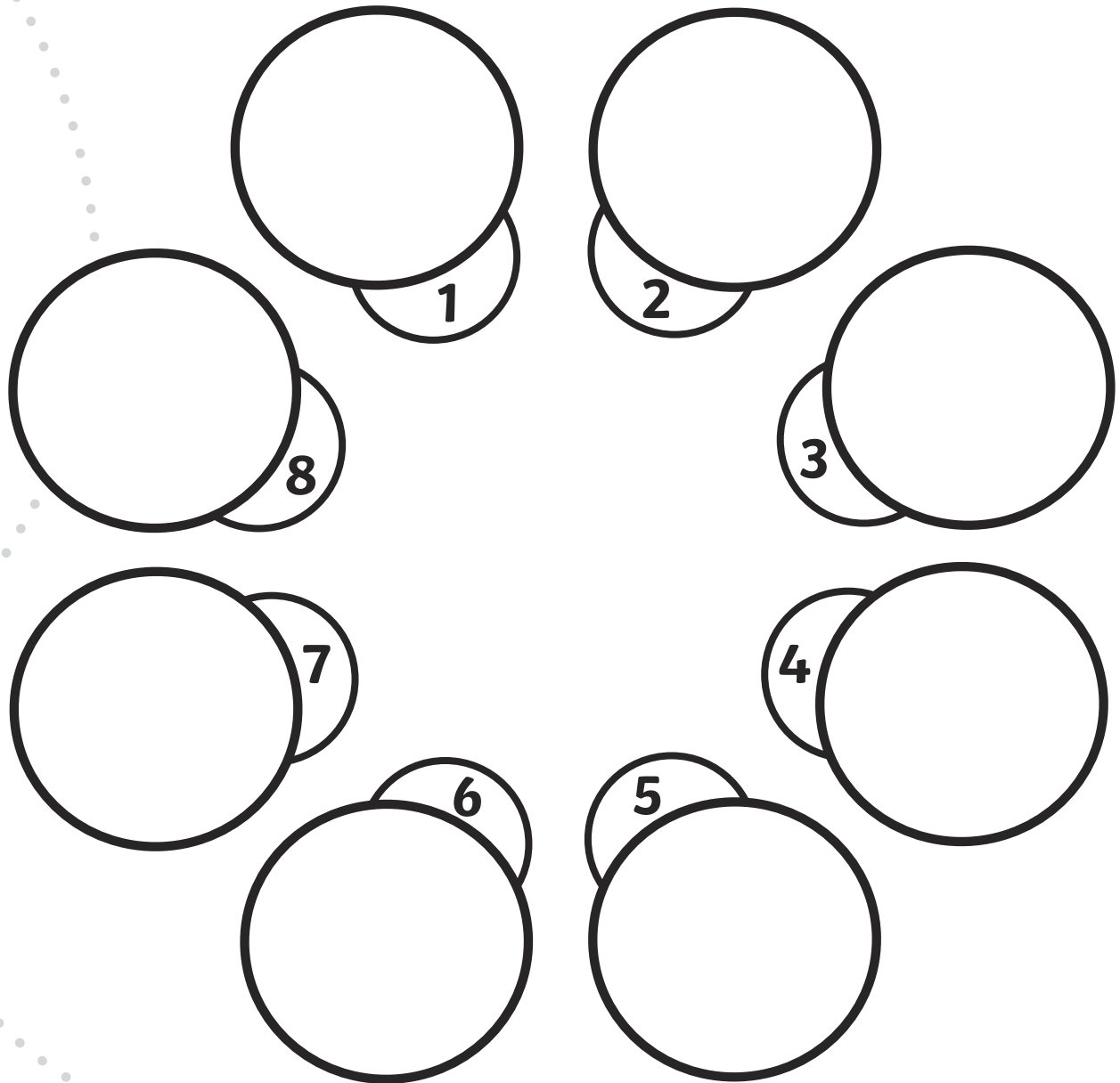
seeds

Life Cycle of a Bean Plant

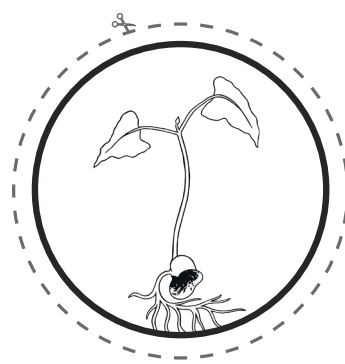
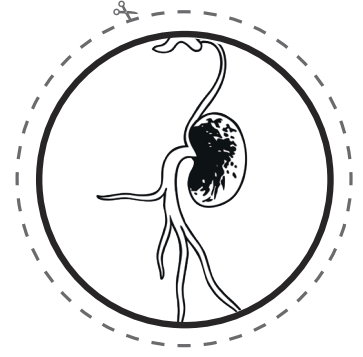
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Life Cycle of a Bean Plant



Flowers

Roots

Seed Dispersal

Germination

Bean

Leaves

Dies

Fruit

Challenge!

Look at these plants. Which stage of its life cycle do you think each is at currently? Explain how you know, using these sentence starters to help you.

Sentence Starters

- This plant is ...
- I know this because ...





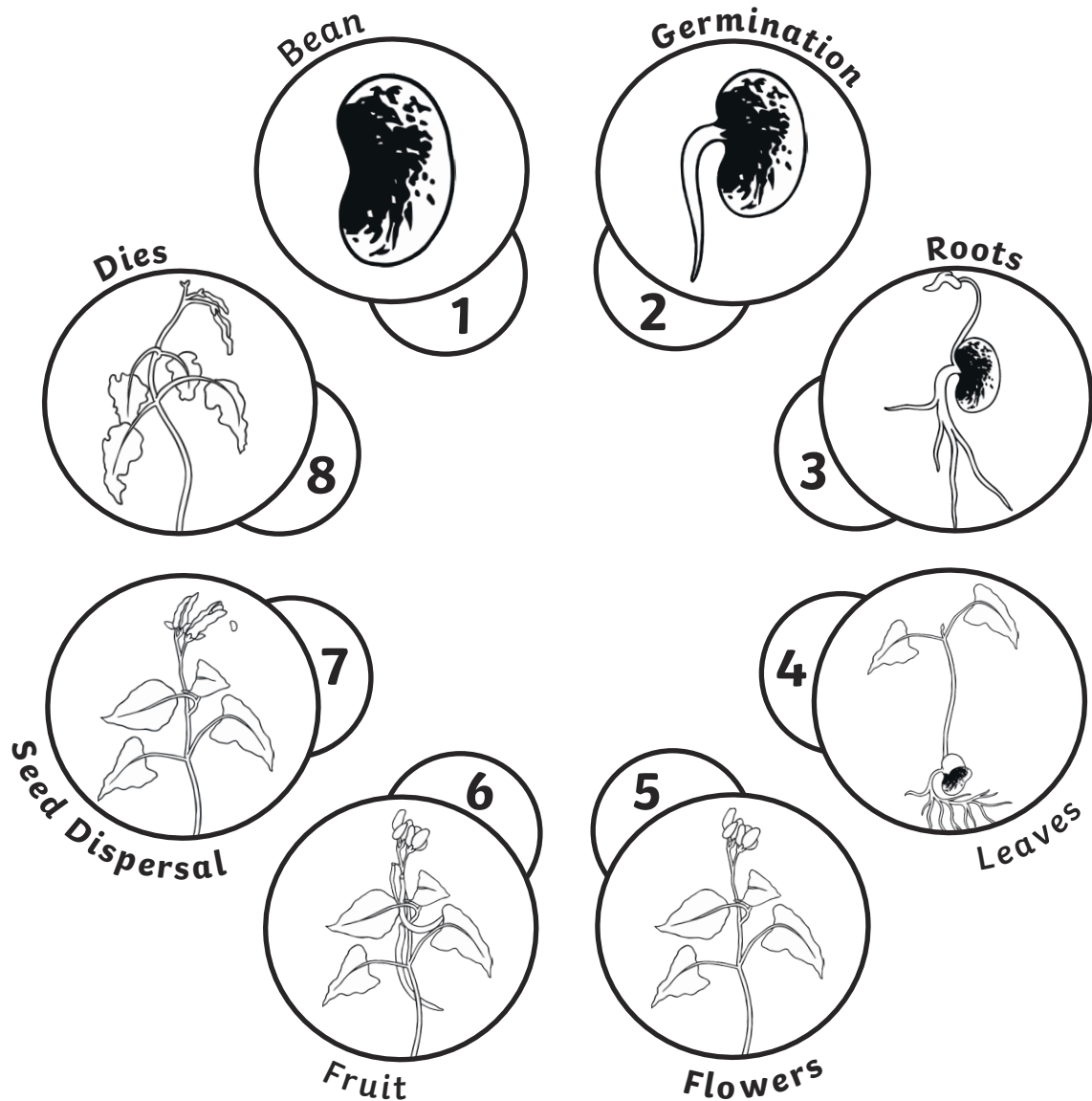




Life Cycle of a Bean Plant Answers

To describe the life cycle of a plant.

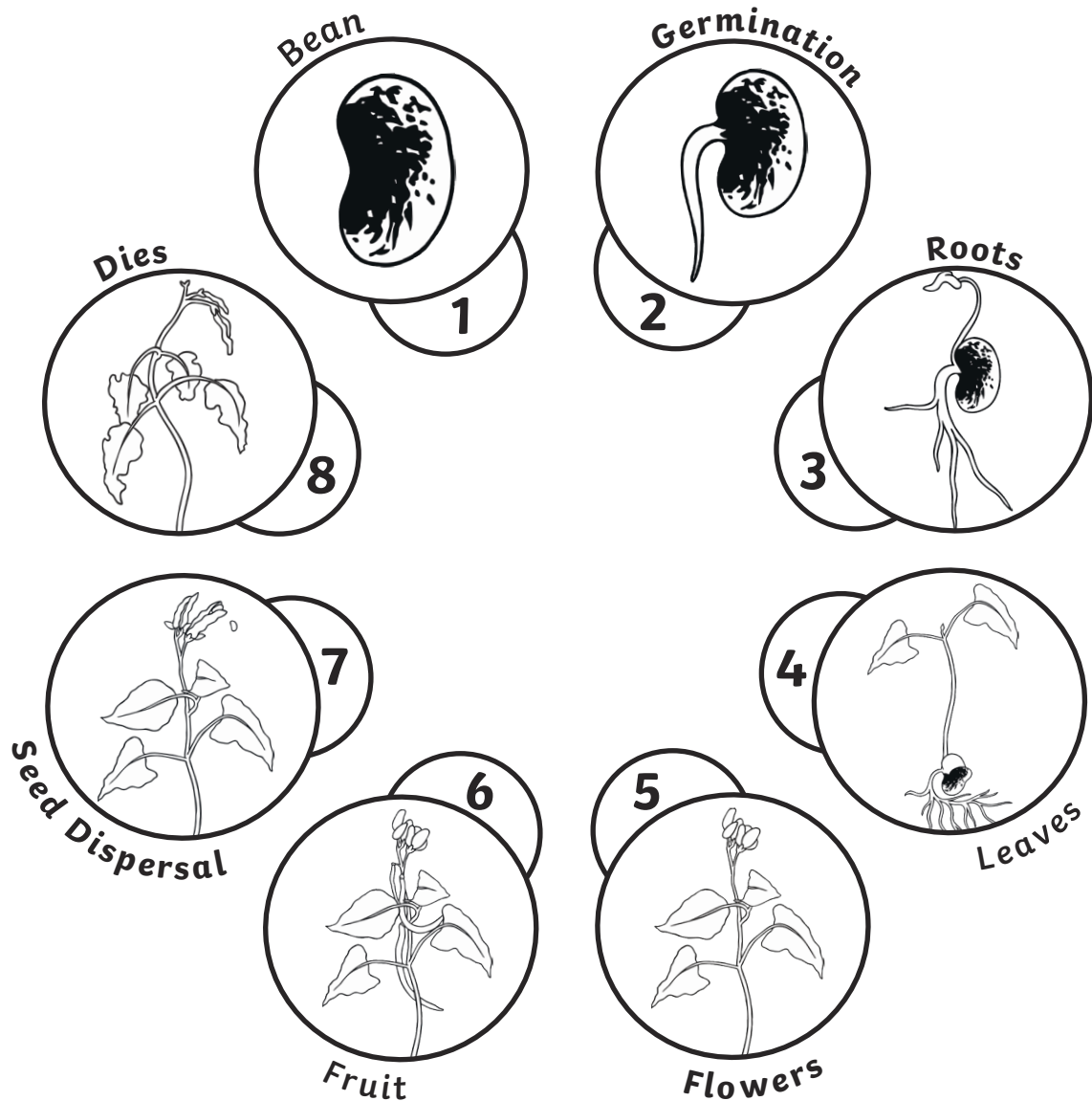
Cut out the pictures to complete the bean plant life cycle.



Life Cycle of a Bean Plant Answers

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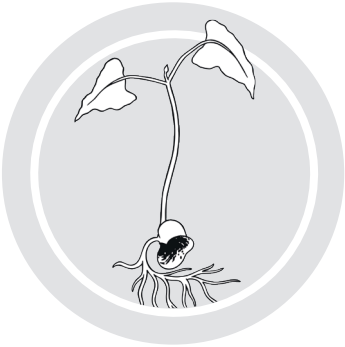
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Example answers



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Flowers grow. They attract bees and other insects, which can then help the plant to make seeds.

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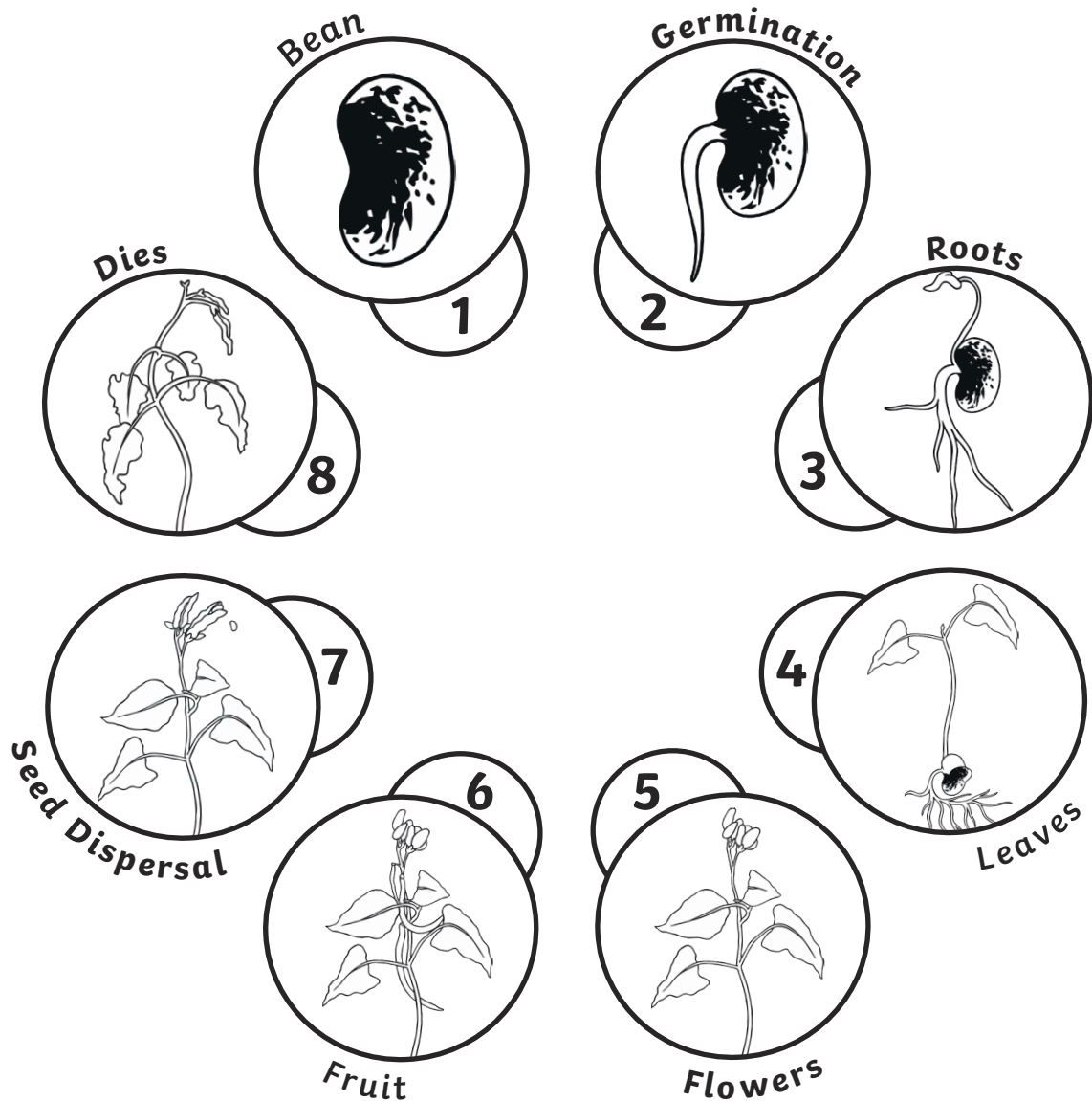
food

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Life Cycle of a Bean Plant Answers

To describe the life cycle of a plant.

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Challenge!

Look at these plants. Which stage of its life cycle do you think each is at currently? Explain how you know, using these sentence starters to help you.

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This is early in the life cycle, when germination happens. I know this because the seed has just burst open and only has a tiny shoot.



This is a fully-grown plant. I know this because it has a tall stem, leaves, fruit and flowers. The seeds have grown inside the fruit.



This is baby plant. The stem and leaves have only just started to grow. I know this because they are both still small.



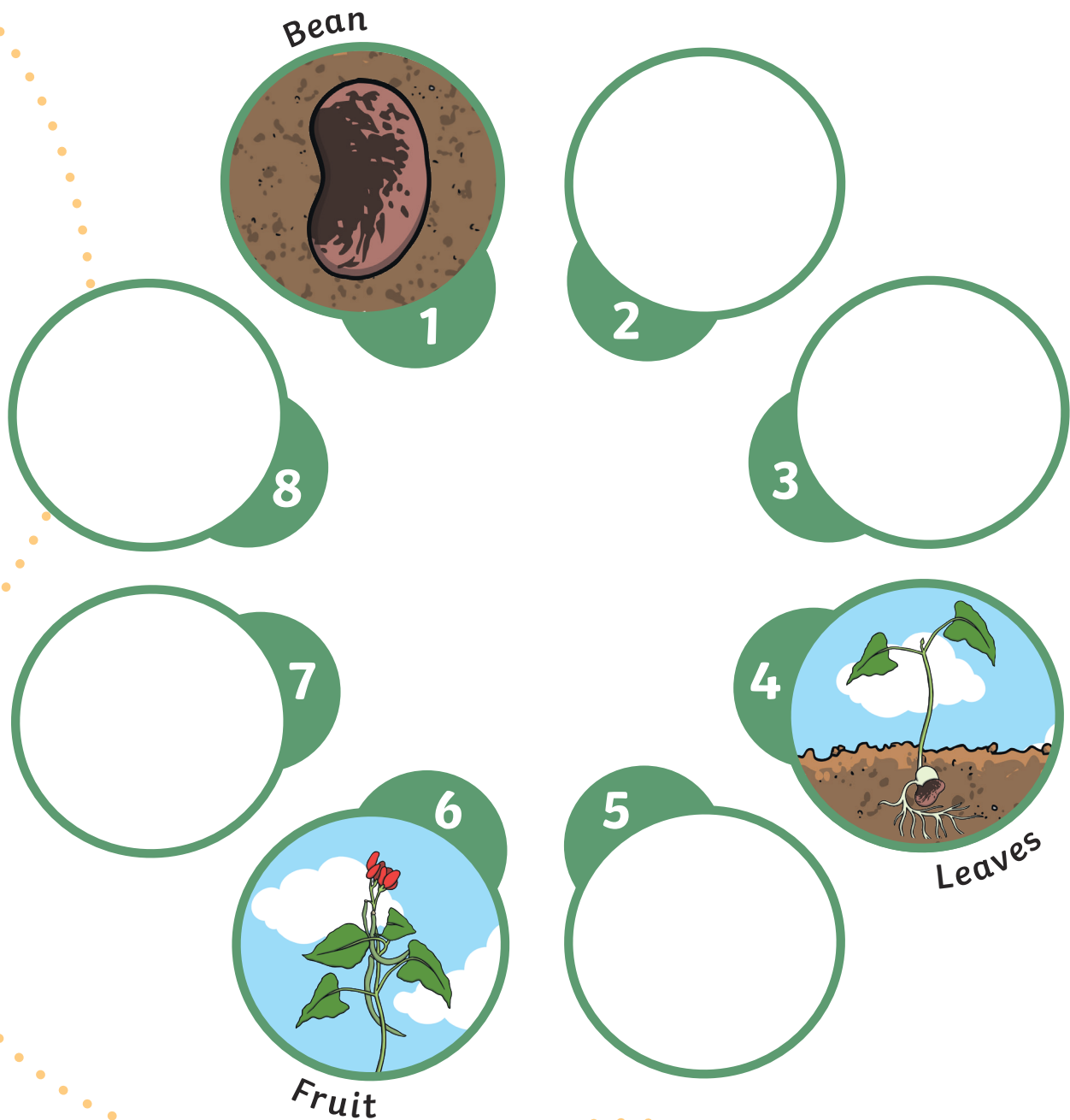
This plant is about halfway through its life cycle. I know this because it has leaves, but hasn't grown any flowers or fruit yet.

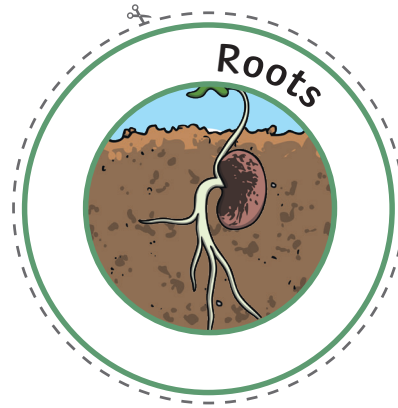
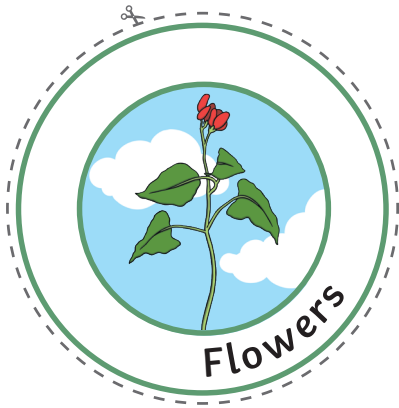
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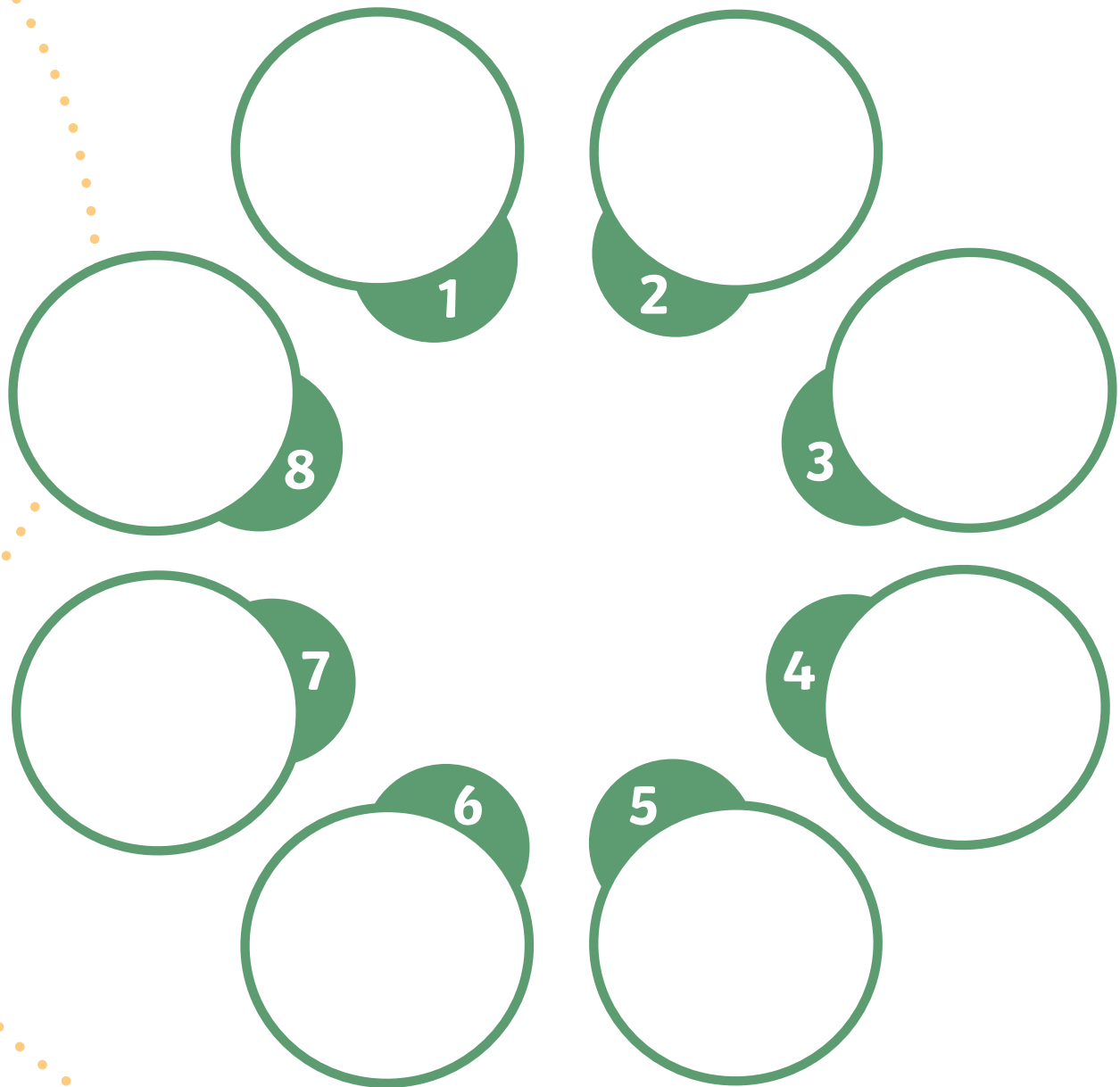


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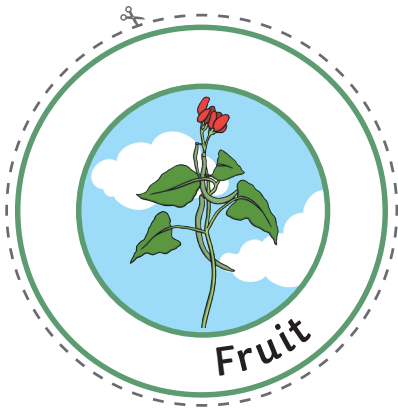
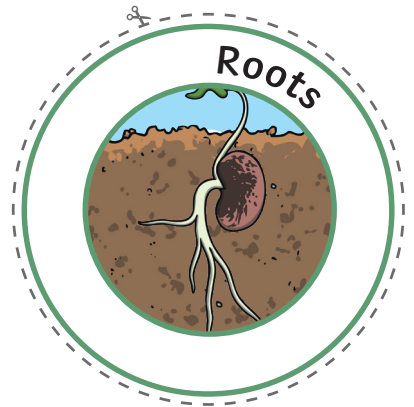
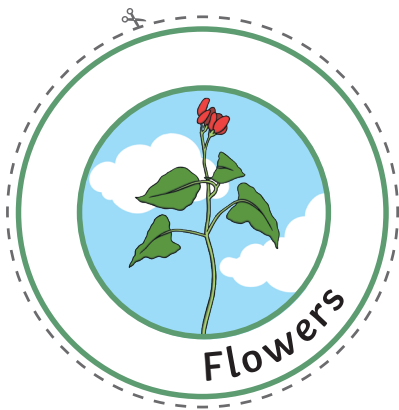
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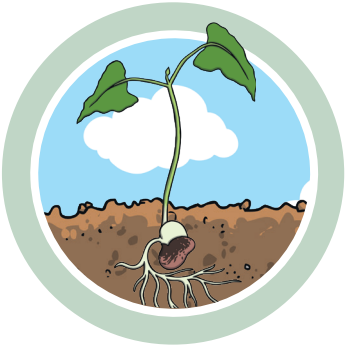
Life Cycle of a Bean Plant

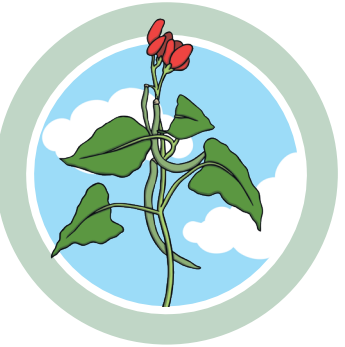


Challenge!

Can you explain what happens during these stages of the plant's life cycle? Use the word bank to help you.







Word Bank

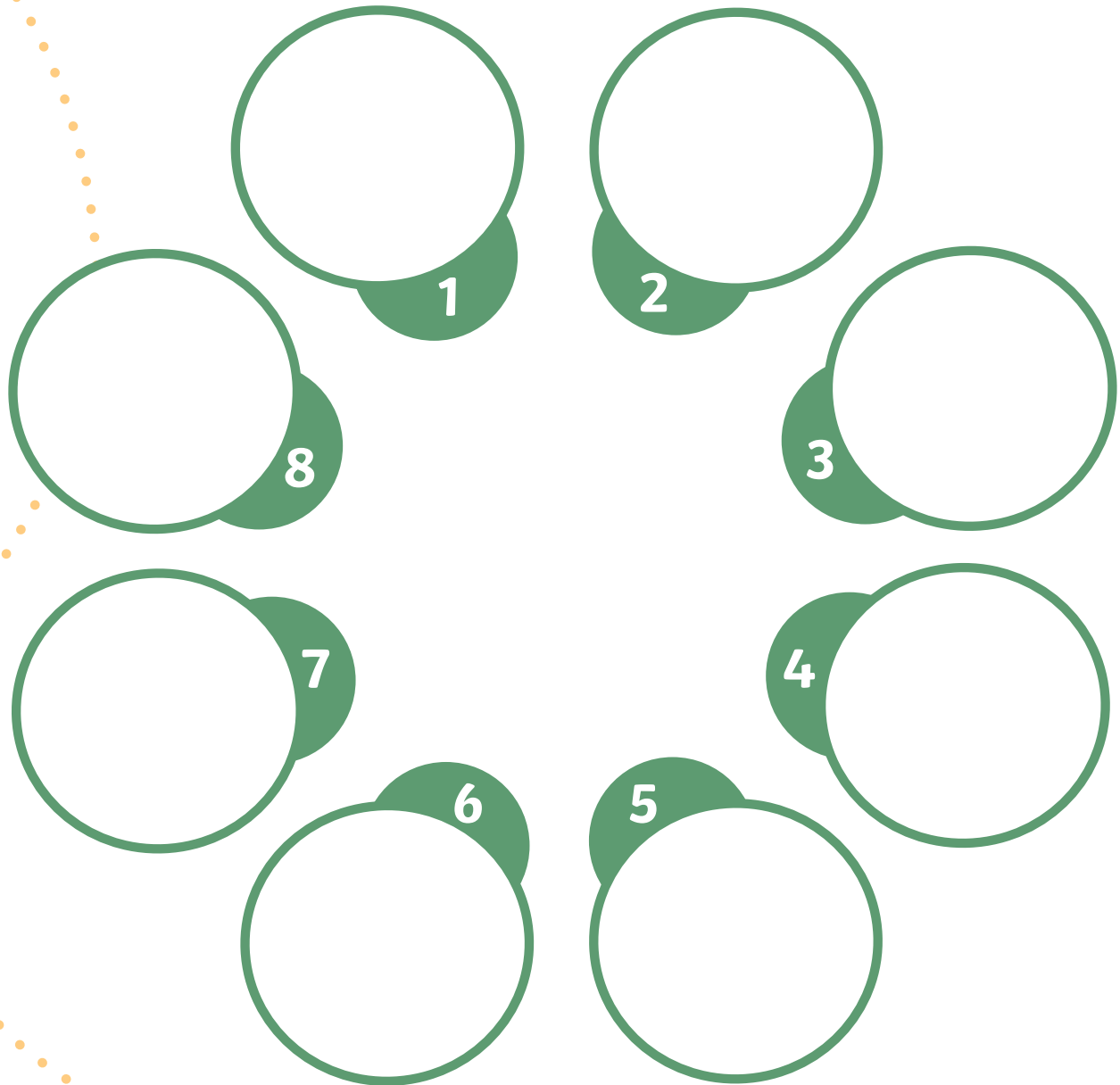
conditions water roots shoots grow
bees stem leaves light food seeds

Life Cycle of a Bean Plant

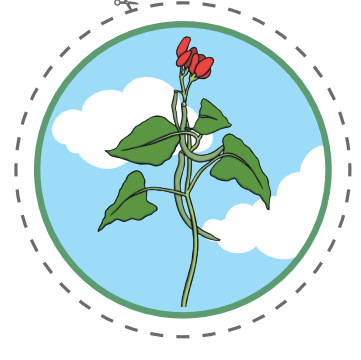
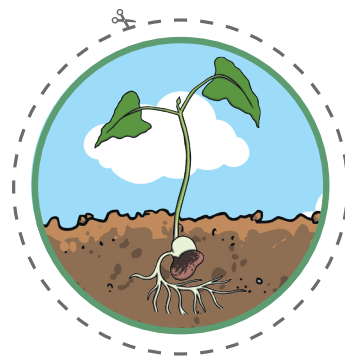
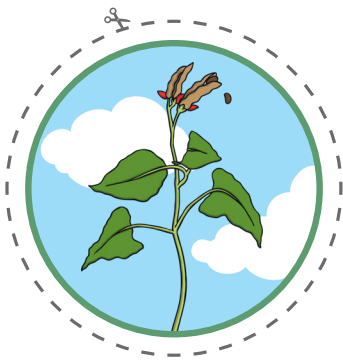
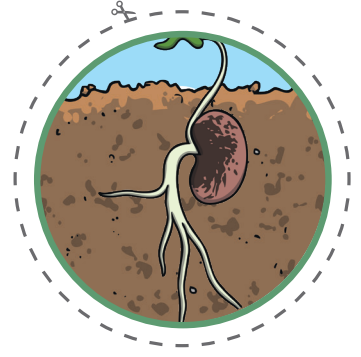
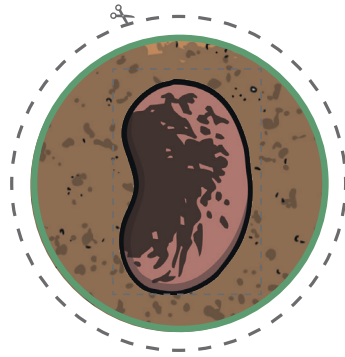
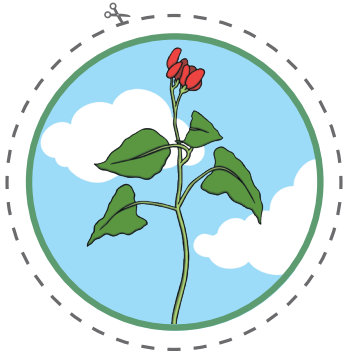
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Life Cycle of a Bean Plant



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Roots

Seed Dispersal

Germination

Bean

Leaves

Dies

Fruit

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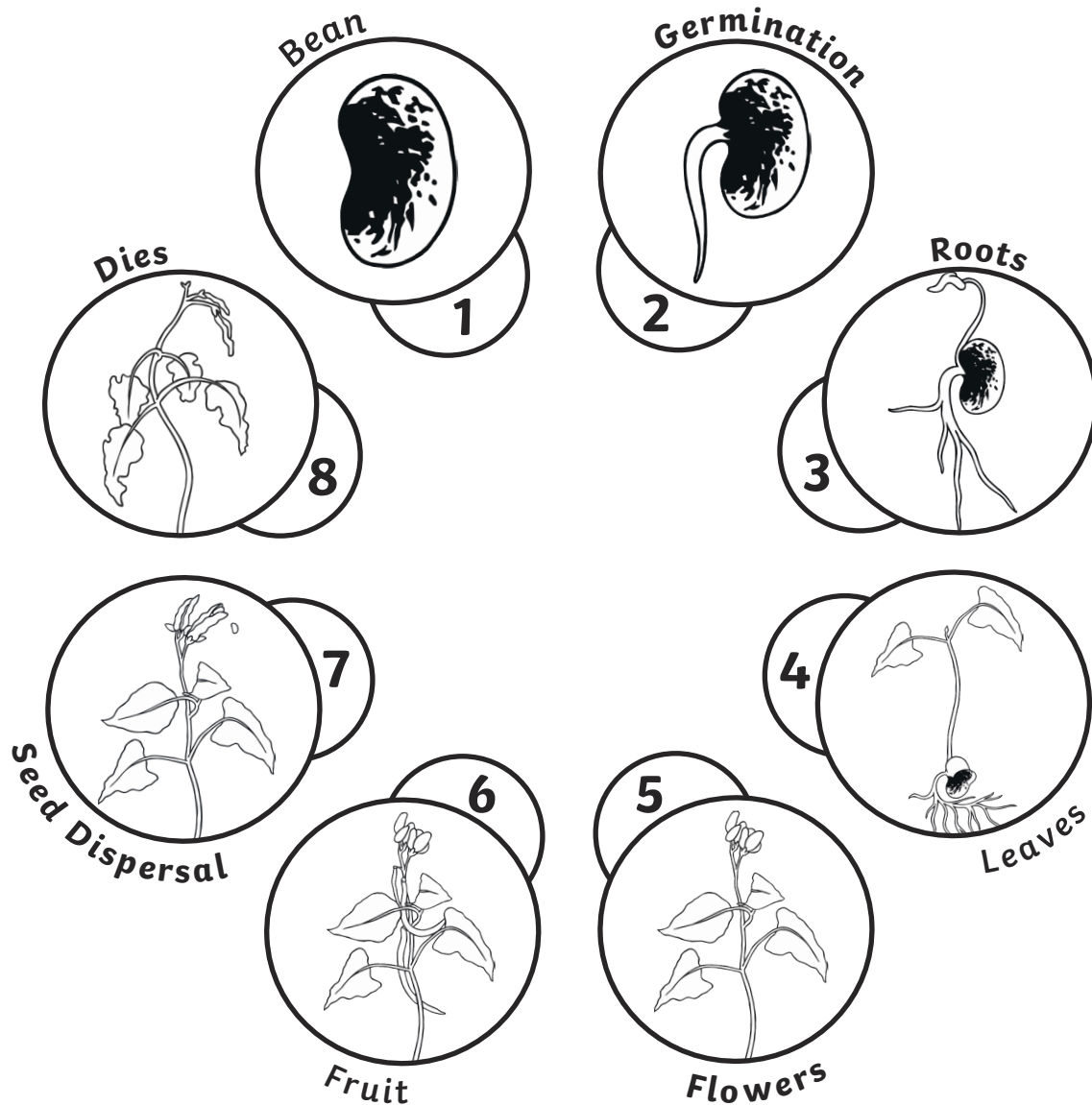




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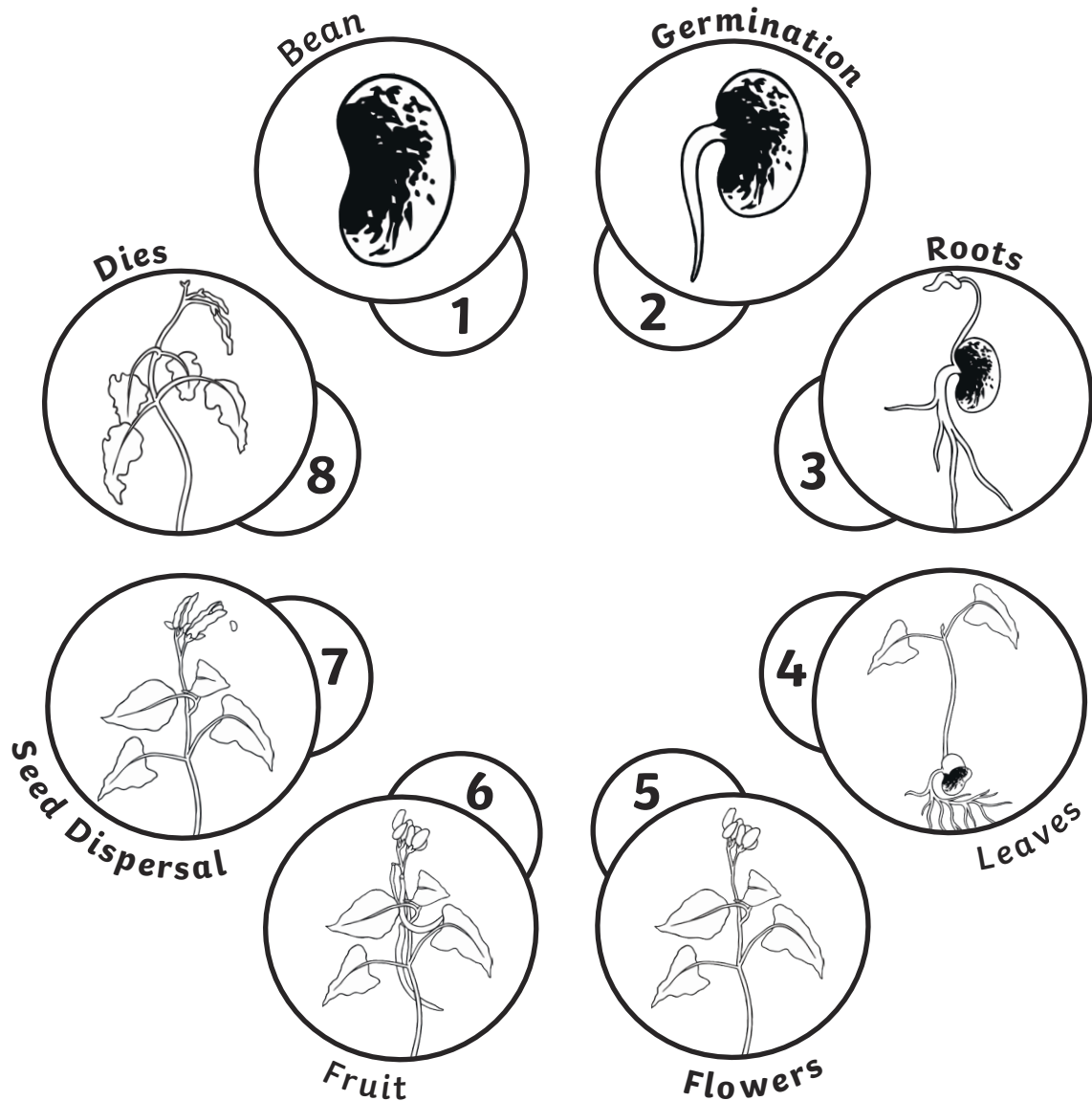
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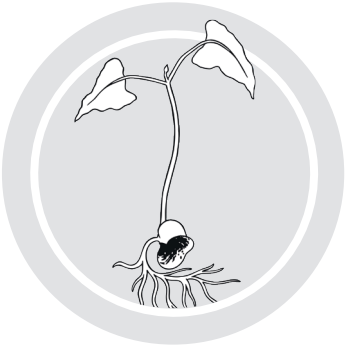
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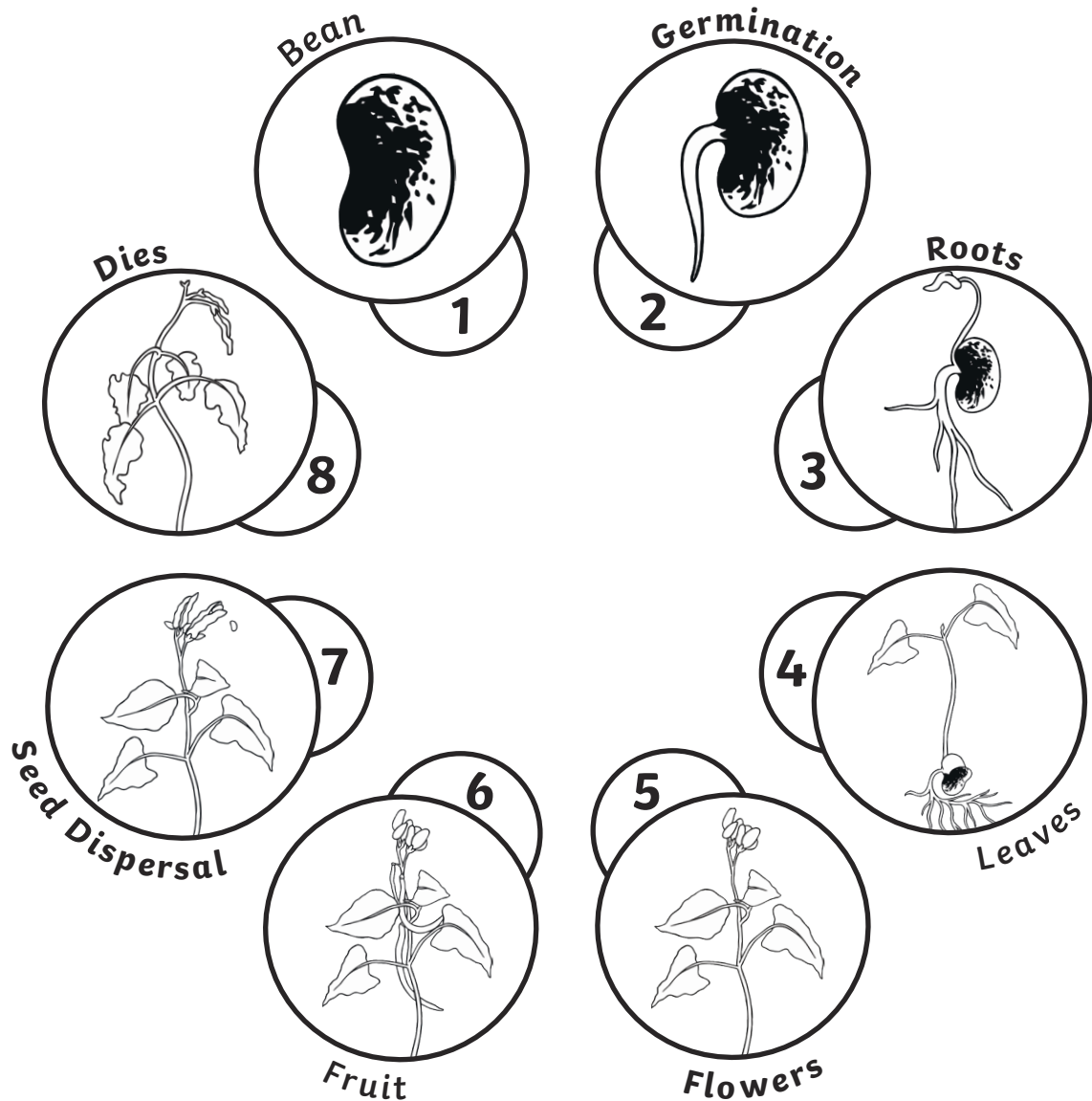
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LIFE CYCLE OF A BEAN PLANT

The seed is in the ground, waiting for the right **conditions** to grow.

After the seeds have been dispersed, some plants (such as the bean plant) die. Many others don't.

Seed dispersal is when the seed moves away from its plant. Seeds can be moved by the wind or by animals eating the fruit and dropping the seed in their poo!

Fruit contains the plant's seeds.

11

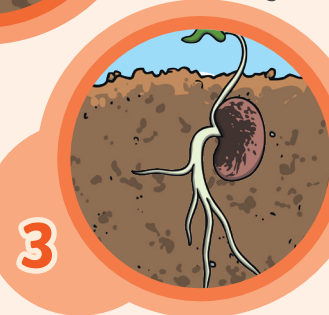


When the **conditions** are right, the seed soaks up water and swells. The seed bursts open as it **germinates**.

The roots start to grow down into the soil. They help to keep the plant in the ground and also take in water and **nutrients**. A tiny shoot grows up from the seed.

Once the shoot is big enough, leaves grow. The plant can make its own food when it has leaves.

Roots

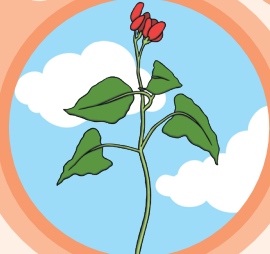


Leaves



Flowers attract bees and insects. They help the plants to make fruit.

Flowers

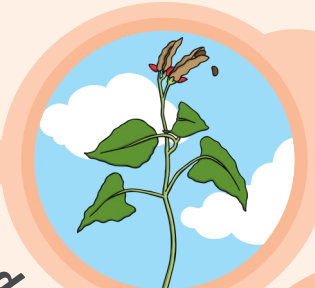


Flowers

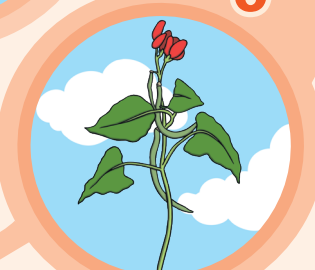
Dies



Seed Dispersal

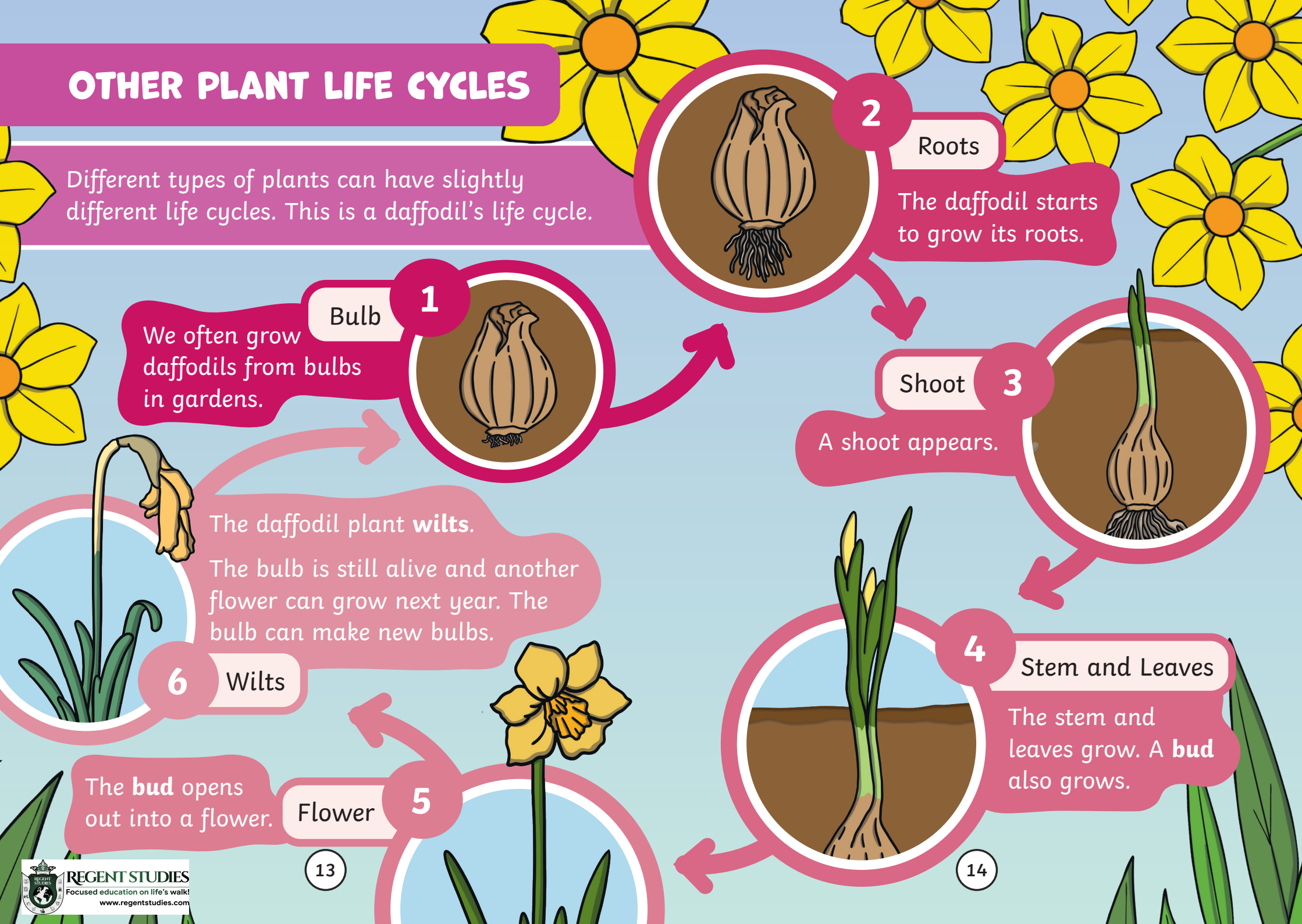


Fruit



OTHER PLANT LIFE CYCLES

Different types of plants can have slightly different life cycles. This is a daffodil's life cycle.



Bulb

1

We often grow daffodils from bulbs in gardens.



2

Roots

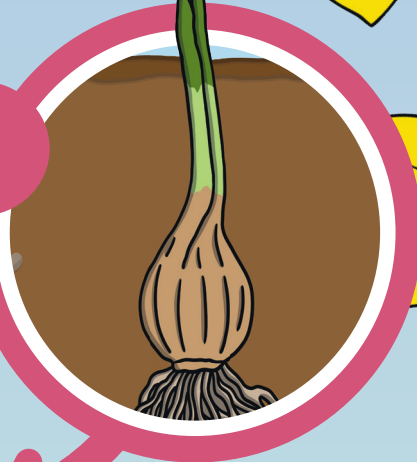
The daffodil starts to grow its roots.



Shoot

3

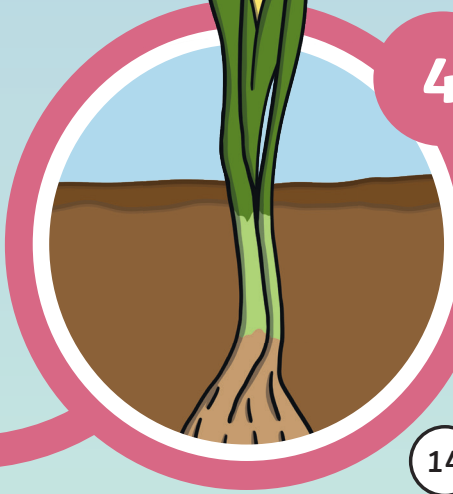
A shoot appears.



4

Stem and Leaves

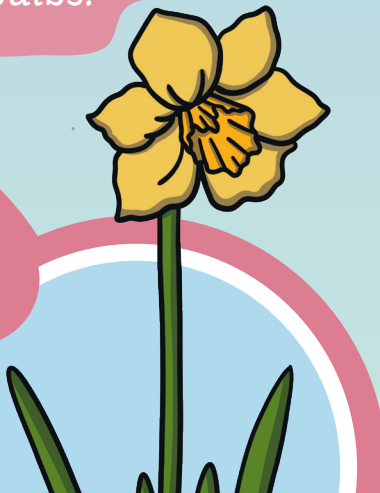
The stem and leaves grow. A bud also grows.



Flower

5

The bud opens out into a flower.

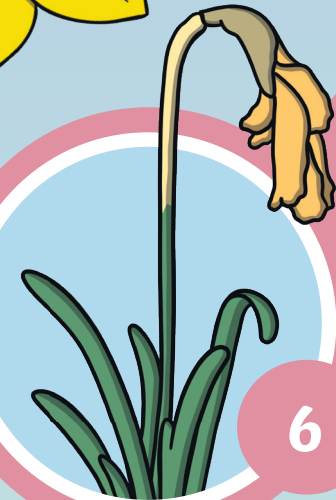


6

Wilts

The daffodil plant wilts.

The bulb is still alive and another flower can grow next year. The bulb can make new bulbs.



This is an oak tree's life cycle.

Seed



Even a huge oak tree begins as a tiny seed. Oak trees produce fruit called acorns which contain the seeds to grow new oak trees.

2

Seedling



The acorn **germinates** and a **seedling** starts to grow.

3

Sapling



The **seedling** grows bigger and becomes a sapling (a young tree).

5

Seed Dispersal



Animals, such as squirrels, help to disperse the acorns.

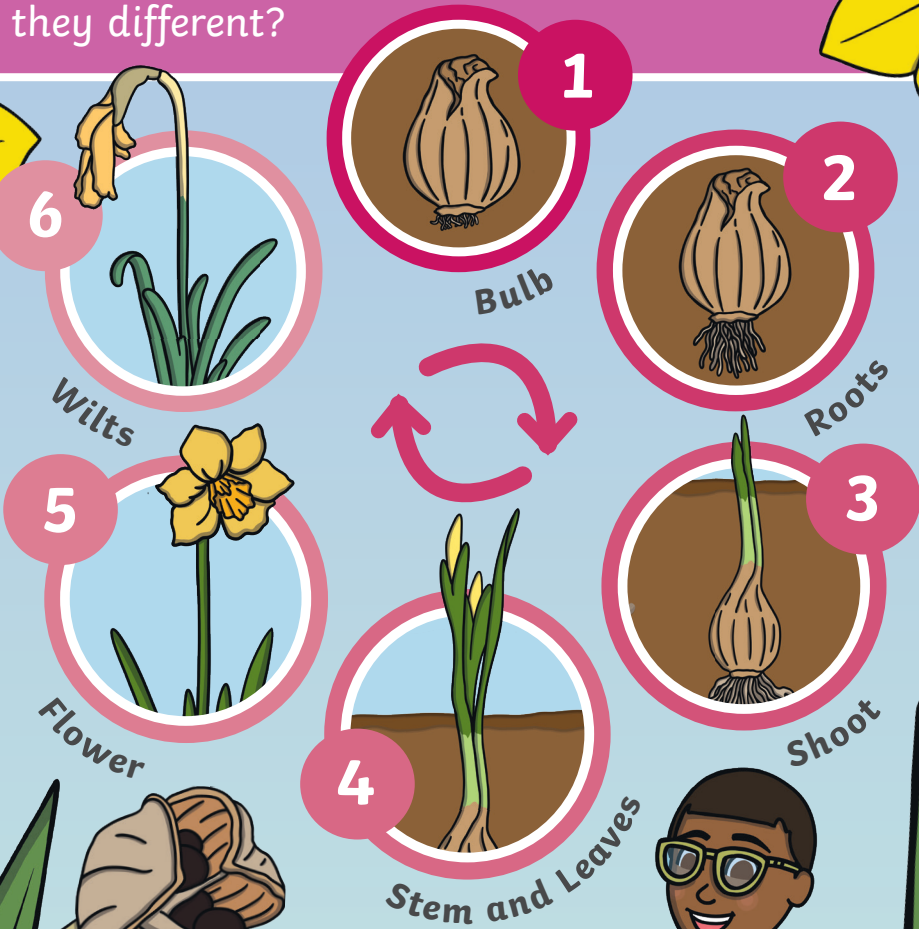
4

Oak Tree



The sapling continues to grow and eventually becomes a fully-grown oak tree. The oak tree produces flowers and then acorns (the fruit).

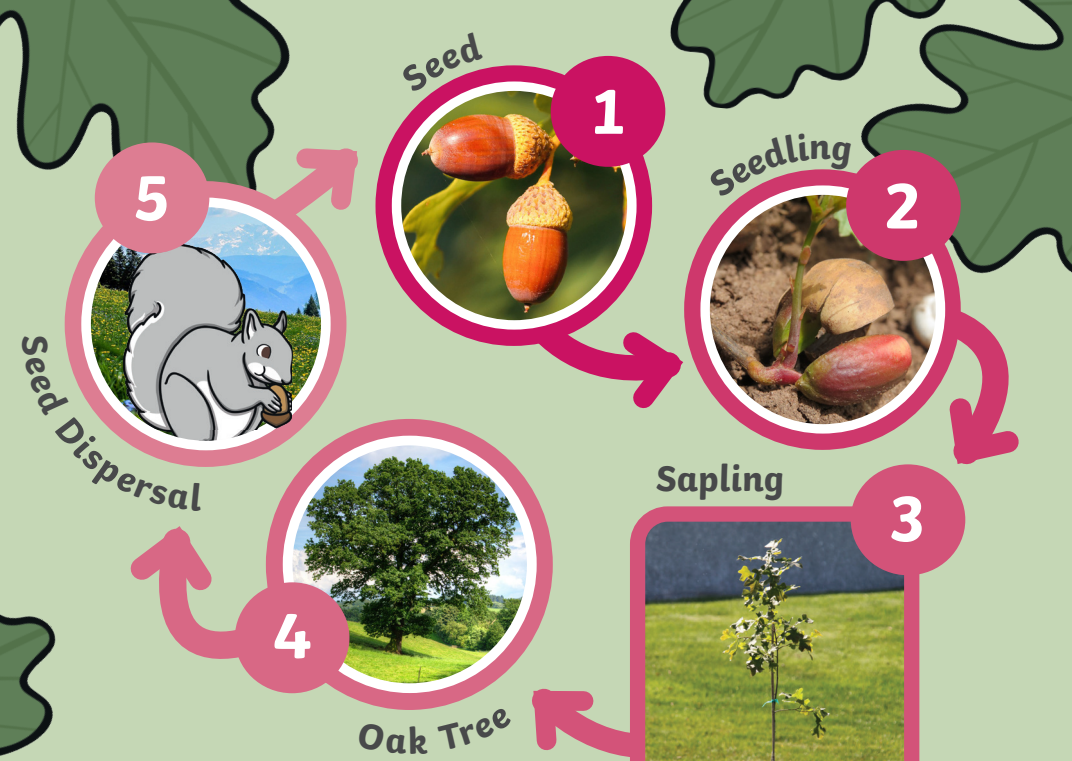
How are the life cycles of a daffodil and an oak tree similar to one another? How are they different?



As well as making new bulbs from their bulb, daffodils can also make seeds and grow from them.

Did You Know ?

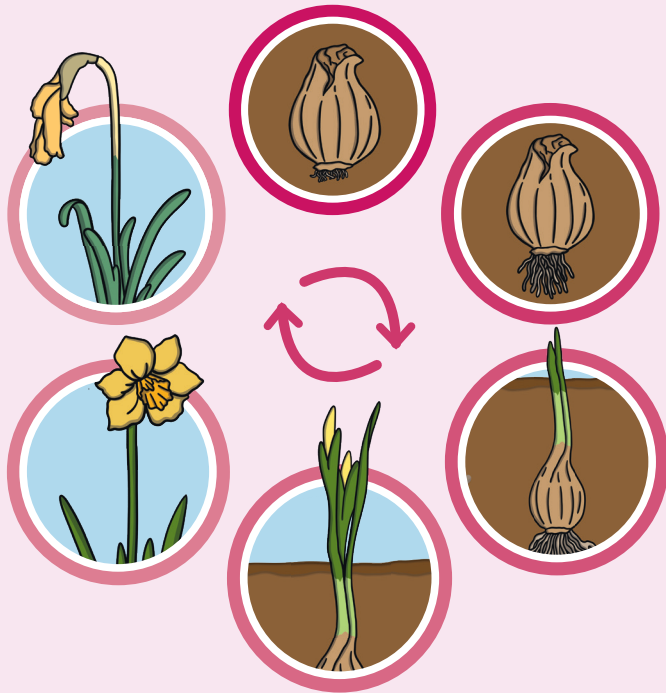
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Did You Know ?

?

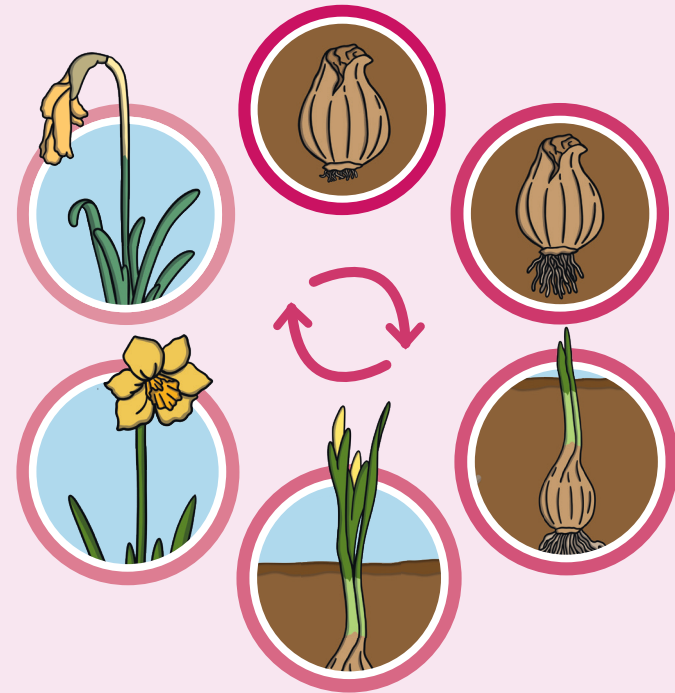
Oak trees can live for hundreds of years. When a very old oak tree dies, it **decomposes** and becomes a tree stump. Insects help the stump to **decompose** by eating the wood. As the tree **decomposes**, it adds **nutrients** to the soil which helps other trees to grow well.



Explain what is happening at each stage in this plant's life cycle.

This life cycle includes a bulb which sprouts through the ground. What is it called when a seed first begins to grow?

Explain how seeds can be **dispersed**.



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This life cycle includes a bulb which sprouts through the ground. What is it called when a seed first begins to grow?

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Reasoning Card ③

Explain what is happening at each stage in this plant's life cycle.

Children name or explain the stages of the life cycle including seed, germination, stem/leaves/flowers/fruit, seed dispersal.

This life cycle includes a bulb which sprouts through the ground. What is it called when a seed first begins to grow?

Germination.

Explain how seeds can be **dispersed**.

Seeds can be dispersed by the wind, water or animals.