

# What Does a Plant Need to Stay Healthy?

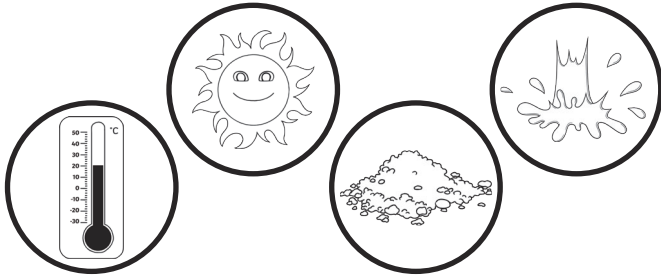
To design and set up a test to find out what plants need to stay healthy.



## What We Did

We are testing what a plant needs to grow and stay healthy. We have planted seeds in 5 different pots. Draw a picture showing what each pot will have and write what will be missing for each one.

Pot 1 has soil, water, light and the right temperature.



Pot 2 will **not** have \_\_\_\_\_

\_\_\_\_\_

Pot 3 will **not** have \_\_\_\_\_

\_\_\_\_\_

Pot 4 will **not** have \_\_\_\_\_

\_\_\_\_\_

Pot 5 will **not** have \_\_\_\_\_

\_\_\_\_\_

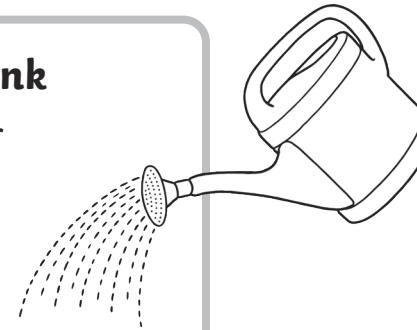
### Word Bank

water

soil

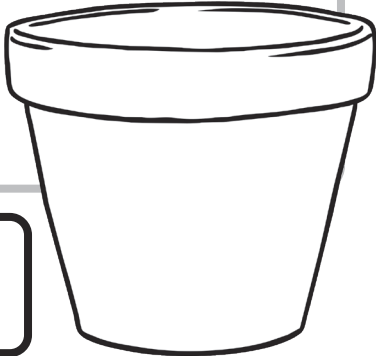
light

the right temperature



## What We Think Will Happen

Write what you think will happen to each plant. You can use the word bank to help you.

<p>Pot 1</p> <hr/> <hr/> <hr/> <hr/>	<p>Pot 2</p> <hr/> <hr/> <hr/> <hr/>	<p>Pot 3</p> <hr/> <hr/> <hr/> <hr/>
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**Challenge!** Do you think there will be anything about our test that will be tricky to do? Write a sentence on your whiteboard to explain.

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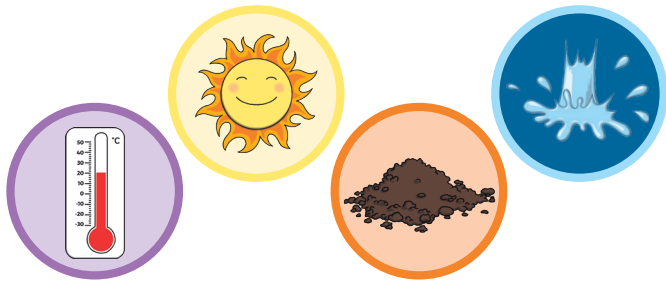
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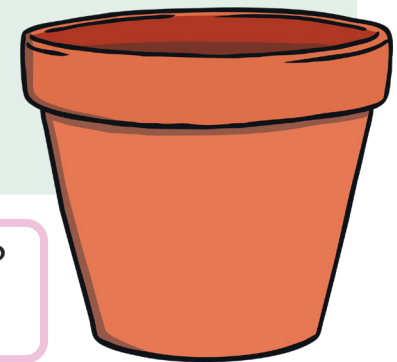
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### Challenge!

Do you think there will be anything about our test that will be tricky to do? Write a sentence on your whiteboard to explain.



# Class Plant Diary

We have planted a \_\_\_\_\_ on \_\_\_\_\_.

name of plant

date

We are going to observe and measure how the plant grows and either draw or photograph it each week.

Starting week:

Week 1:

The plant is \_\_\_\_\_ tall.

Week 2:

The plant is \_\_\_\_\_ tall.

Week 3:

The plant is \_\_\_\_\_ tall.

Week 4:

The plant is \_\_\_\_\_ tall.

Week 5:

The plant is \_\_\_\_\_ tall.

Week 6:

The plant is \_\_\_\_\_ tall.

Week 7:

The plant is \_\_\_\_\_ tall.



Week: \_\_\_\_\_

The plant is \_\_\_\_\_ tall.



Week: \_\_\_\_\_

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Week: \_\_\_\_\_

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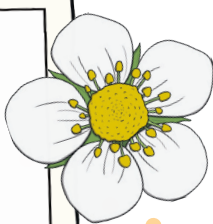
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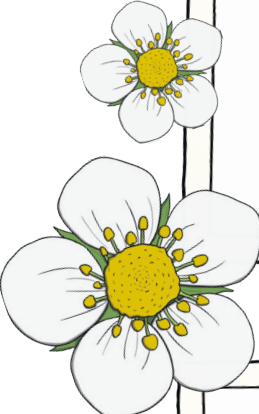
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Aisha has some seeds and she wants to find out what plants need to grow strong and healthy.



Can you explain how Aisha could use her seeds to test what plants need?

Do you think that Aisha should use both types of seeds in her test, or only one type? Explain why.

What do you think Aisha will find out from her test and why?

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**Reasoning Card ①**

Can you explain how Aisha could use her seeds to test what plants need?

**Aisha could plant some seeds in the dark, some without water, some without soil and some with soil, water and light. She could then see which plant grows best.**

Do you think that Aisha should use both types of seeds in her test, or only one type? Explain why.

**Aisha should only use one type of seed, because different seeds need different amounts of water or warmth and grow more quickly or slowly.**

What do you think Aisha will find out from her test and why?

**I think she will find out that seeds need water, light and the right temperature to grow into strong and healthy plants because that is what I think all plants need to grow well.**

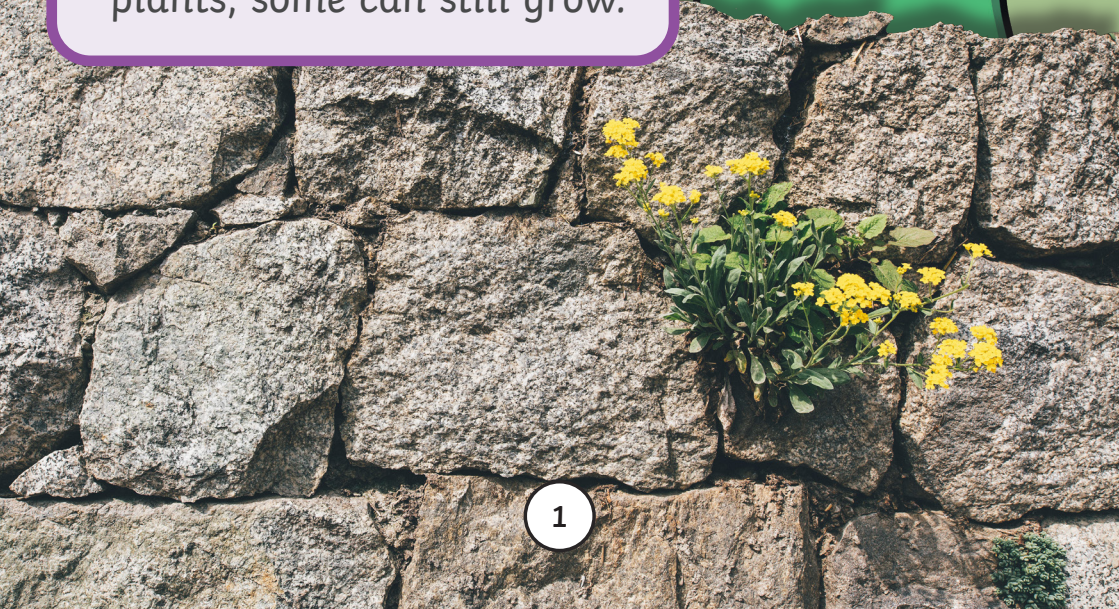


# PLANTS

Have you ever stopped and looked at how many plants there are in the world around you?



Even in places you might think there aren't any plants, some can still grow.



1



In fact, plants grow in nearly every habitat on Earth!



In this book, we will learn more about how plants grow, what they need to grow well and where in the world different plants grow best.

2



# LIVING THINGS

Did you know that you and a plant are similar in lots of ways? Let's learn about the things that all living things have in common.

## Growth

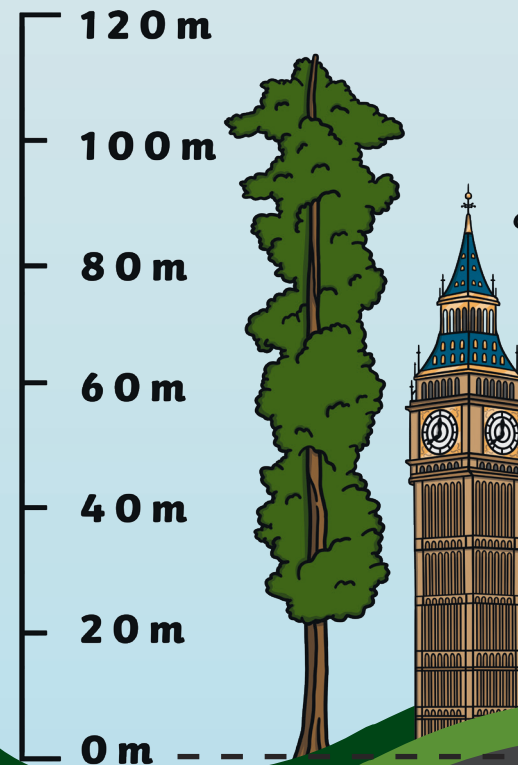
All living things grow. Think how much you have grown since you were a baby! Plants grow too. They can grow new leaves, grow taller and some can grow flowers and fruit. Some grow to be very small and some grow to be huge!



## Did You Know ?

The tallest plant in the world is a coast redwood tree in Redwood National Park in California, USA.

Scientists measured it by climbing to the top of it and dropping a very long tape measure to the ground.



It measures over 116 metres tall - that's taller than Big Ben's tower!



## Movement

What? Plants move?

Yes, they do! Sunflowers move their flowers so that they face the sun.



Sunflower

5

A Venus flytrap closes its trap when a fly lands in it.



Venus flytrap



Mimosa Pudica

When the touch-me-not plant (its proper name is *Mimosa pudica*) is touched, its leaves curl and droop.

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