

# Welcome to the Brilliant Beans Squad!

Your mission: to discover which plants grow best. You will get updates for tasks and activities!

Like all good scientists, you'll need to record and share your findings. For every different type of seed you grow, record the date you planted them and the date of every milestone they reach, from germination (sprouting a shoot) to producing pods.

Share your findings!

Once you have completed your mission in the autumn share your findings with Prof Mark Chapman using the QR code:



Broad Bean

I planted my seeds

Date:

My seed has sprouted

Date:

My plant has grown a leaf

Date:

My plant has a flower

Date:

My plant has a pod

Date:



Chickpea

Date:

Date:

Date:

Date:

Date:



French Bean

Date:

Date:

Date:

Date:

Date:



Lablab

Date:

Date:

Date:

Date:

Date:



Lentil

Date:

Date:

Date:

Date:

Date:



Pea

Date:

Date:

Date:

Date:

Date:

## Test your soil's pH before you plant

Did you know that your soil is full of life! There is a microscopic world inside the soil, and for these mini-micro-beasts to live they need healthy soil.

A good way to work this out is to test how acidic or alkali your soil is with pH paper. For your crops to get the best nutrients possible, to help them grow big and strong, the pH of your soil needs to be between 5 and 8.

### Let's get testing!

- Take a teaspoon of soil and mix it with 4 tablespoons of water.
- Dip the pH paper strip (you'll find it in your growing kit) in the muddy mixture to wet the paper.
- Wait and watch for you strip to change colour.
- Match the colour of your paper strip to the colour on the pH scale.
- Record the pH number that matches your colour on your chart.

My soil has a pH of:

(test in two or three places to check)

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0