

My Plant

Diary

Spring

2020

Name: _____

I am growing _____

I started growing my seeds on

_____ . _____ . _____

How I planted my seed

Equipment I used

A picture of my
seed

What I did:

1. _____

2. _____

3. _____

4. _____

Looking after my seed

Where am I keeping my seed?

What does my seed need to grow?

Draw a picture of what you think your seed
will look like when it is fully grown:

Germination

Your seed is currently germinating...what does this mean (you might have to ask a grown up or do some research to find out!)?

Draw a picture of what your seed is doing under the soil! Label it with soil, roots, seed:



Different Plants



These are 2 different plants (a cactus and a tomato plant). Describe how they are different (think about looks, use, where you might find them...):

How might they need to be look after in different ways (think about sunlight, inside or outside, soil type, amount of water)?

Ingredients for Growing a Plant

Which of these things does your plant need for it to grow?



Soil

My plant does/doesn't need this to grow because _____



Water

My plant does/doesn't need this to grow because _____



Exercise

My plant does/doesn't need this to grow because _____

Ingredients for Growing a Plant

Which of these things does your plant need for it to grow?



Air

My plant does/doesn't need this to grow because _____



Other plants nearby

My plant does/doesn't need this to grow because _____



Sunlight

My plant does/doesn't need this to grow because _____

How Does Water Travel In a Plant?

Experiment time! First of all, make a prediction...how do you think plants "drink" water? Through the flower head? Leaves? Roots? Stem? Why do you think that?

I think plants get water through their _____

You Will Need...

- 3 celery sticks. (This experiment can also work well with white petalled flowers. Feel free to repeat the experiment with different plants/vegetables and let me know if anything else works well!)
- Food colouring (I've found that red or blue work best)
- A Glass/Cup of warm water for each celery stick

What to do...

1. Put one stick of celery in each of your glasses of water, snipping off the bottom white part but keeping any leaves.
2. In the first glass, put food colouring in the water at the bottom (this is like putting food colouring into the soil). You will need to add enough so the water is opaque but can always add more if you need to.
3. In the second glass, put lots of food colouring on the leaves of the celery with a paintbrush or you finger (make sure you wash your hands afterward...no one wants to look like a smurf!). This is like rain falling on your plant leaves.
4. In the third glass, put lots of food colouring on the stem/stalk of the celery. This will probably slide down the sides but that's fine!
5. If you have any spare celery, eat it!

How Does Water Travel In a Plant part 2

What does your experiment look like? Draw a picture below, labelling the celery, water, glasses, food colouring (it's important to colour it in carefully):

Now, this part can be temperamental...it might take a few hours or a few days for your experiments' results to show! This is good training for budding scientists that you have to be patient...

You might need to top up the water (warm water can work more quickly), and add more food colouring to the different parts. You should begin to see the first celery (where we put food colouring in the water) starts to get blue (or whatever colour you used) leaves and stem!

What do your different celery sticks look like now? Draw a picture below, labelling the celery, water, glasses, food colouring (it's important to colour it in carefully!):

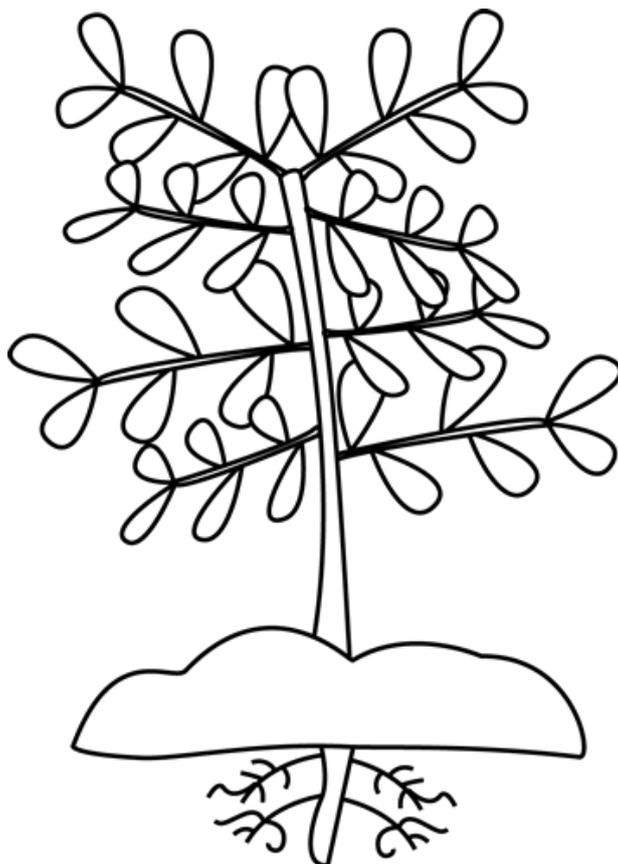
How Does Water Travel In a Plant part 3

This part might need some help from/discussion with parents...

What have you found out? How does water travel in plants?

What does a plant use as its "mouth"? Where does the water travel to?

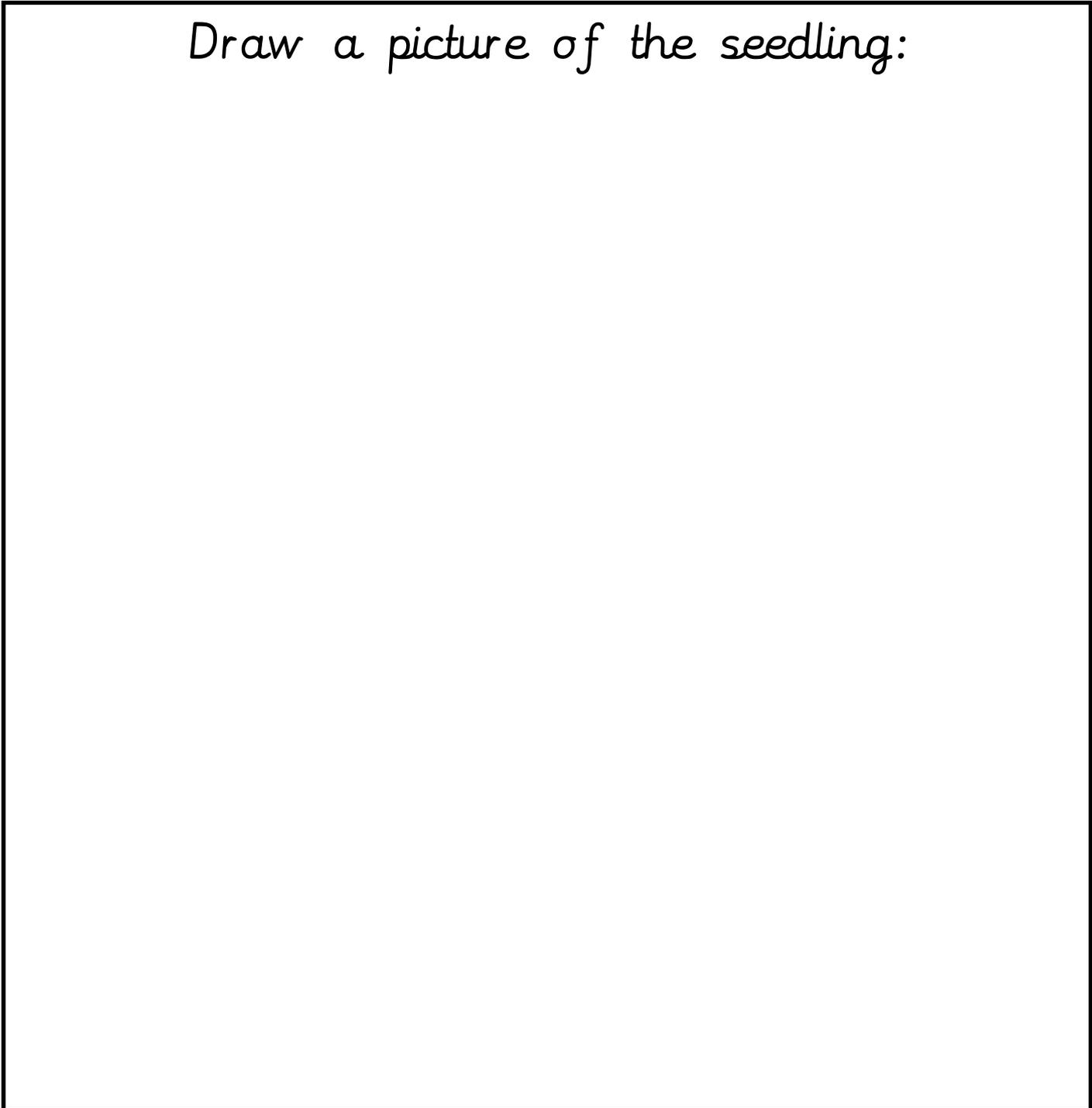
Show on this diagram the direction water travels, using arrows to help you:



Day _____ (wait until you can see your plant growing out of the soil)

What can you see?

Draw a picture of the seedling:



Measure your plant.

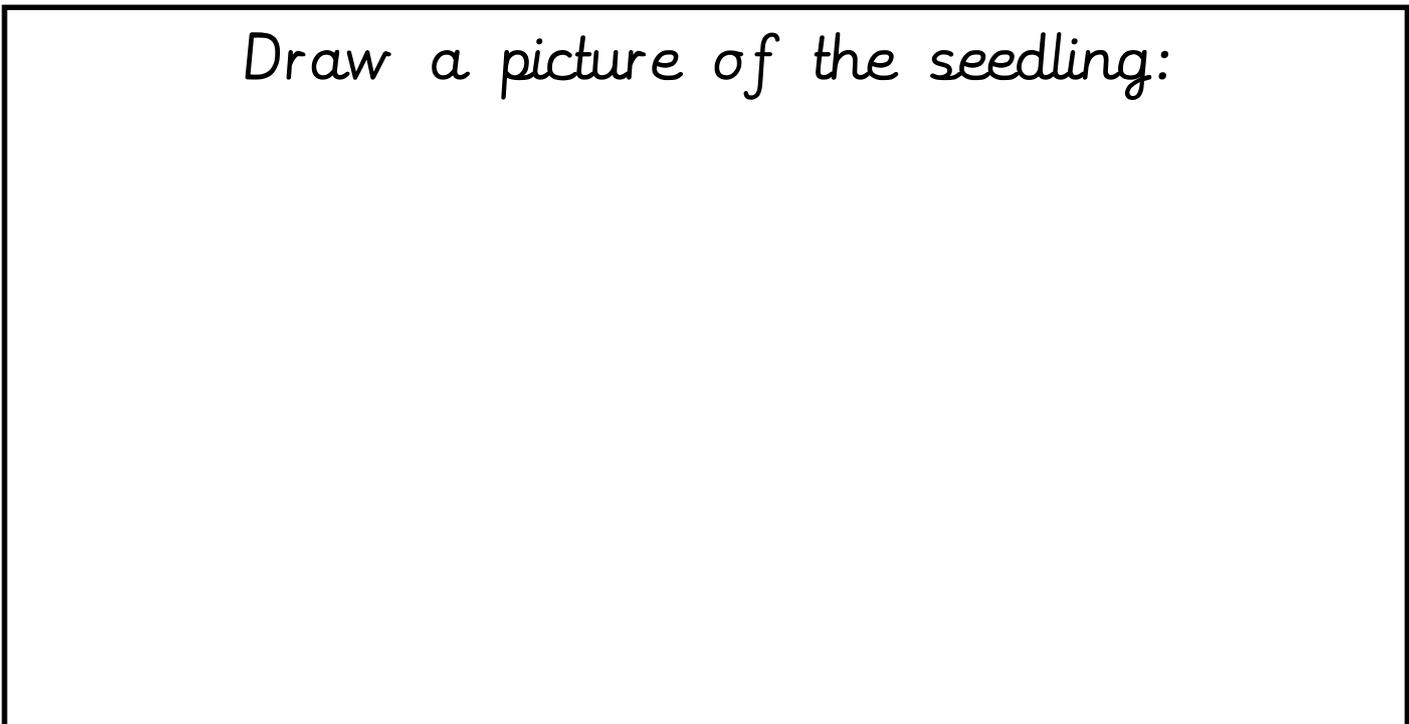
How tall is it in mm? _____

How tall is it in cm? _____

How tall is it in m? _____

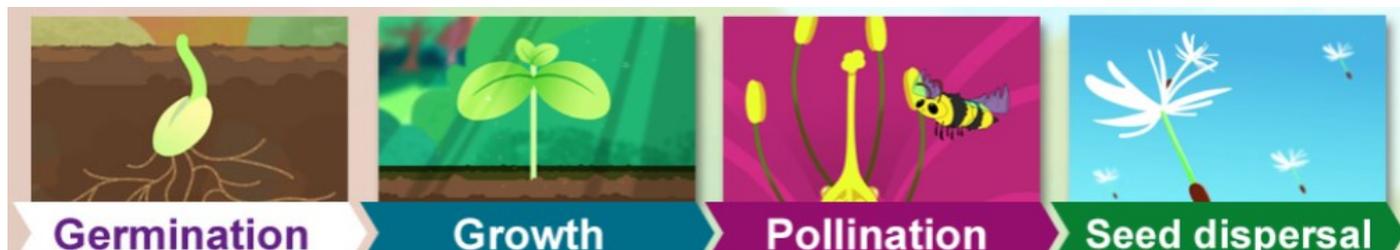
What do you think you could do to help it
grow better/faster?

Draw a picture of the seedling:



Some plants will grow a flower and be pol-
linated. What does this mean?

Will your plant be pollinated? Why? Why not?



Which stage is your plant currently at? _____

Draw a picture of a flower being pollinated:

Why do plants need roots?

Why do plants need stems?

Draw a picture of a plant (yours might not be showing all of these parts yet!) labelling the: roots, stem, leaves and flowers

Why do plants need leaves (if you're feeling really clever, you could find out what photosynthesis is...!)?

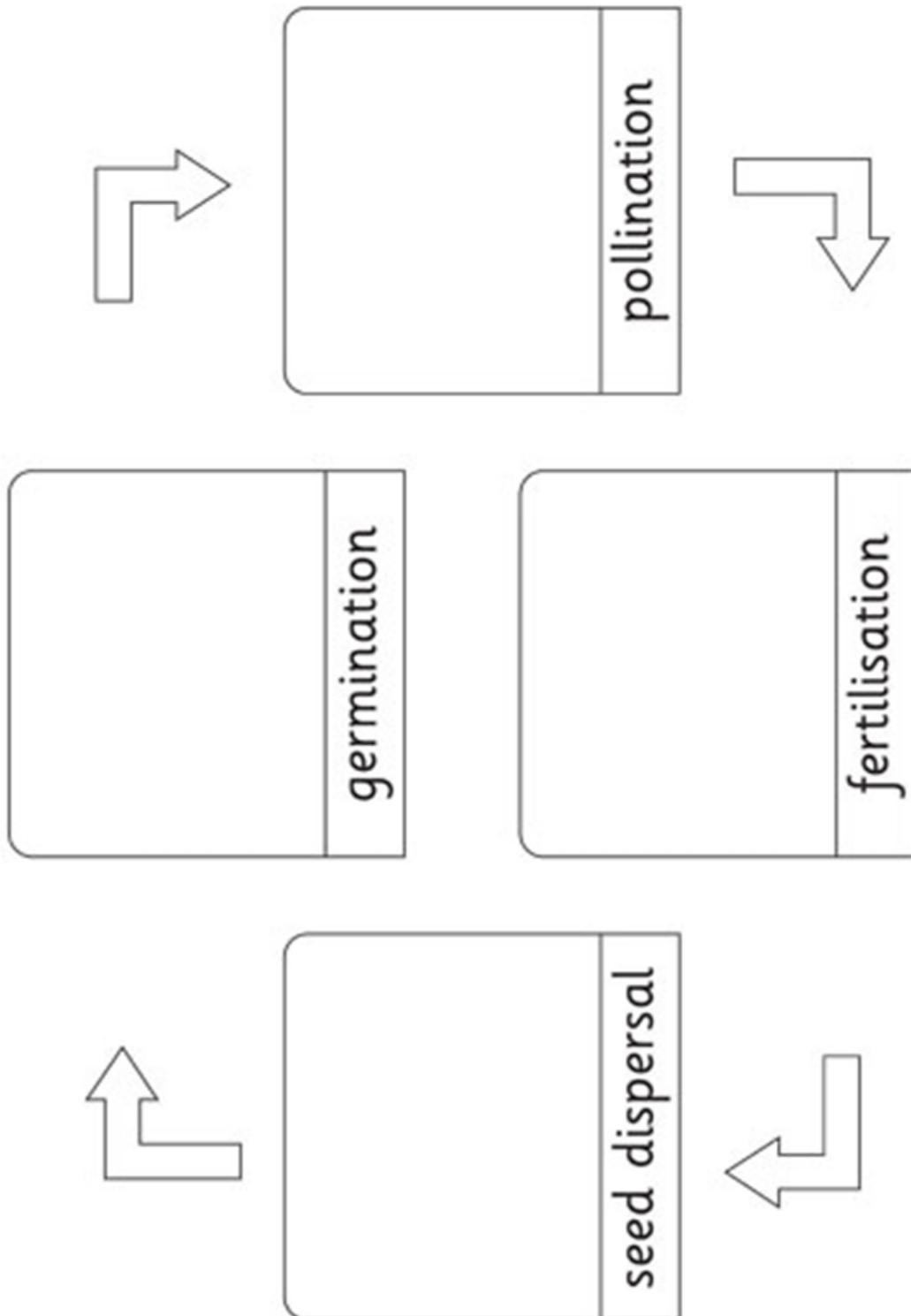
Why do some plants need flowers?

Name some plants that grow into flowers at some stage of their life:

Draw a picture of a flower (from a real one if you can!)

Flower Life cycle

Draw a flower at each stage, using the headings to help you.
You might want to draw the same flower at different stages (a dandelion would fit into each of these well!) or different types of flowers
of flowers



Let's Take a Selfie!

Take a selfie with your plant and send it to Miss Brearey! Let's see if she can guess what plant you have grown... (please be kind and wait until it is fully grown/flowering...it may be rather tricky to guess otherwise!)



Look what I
grew Miss
Brearey!

