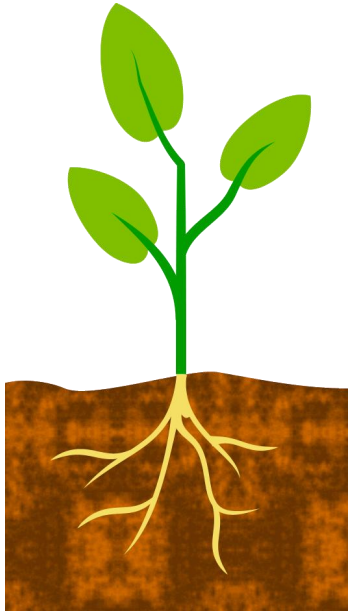
webanywhere
stretch beyond

Unit 3B: Helping Plants Grow Well



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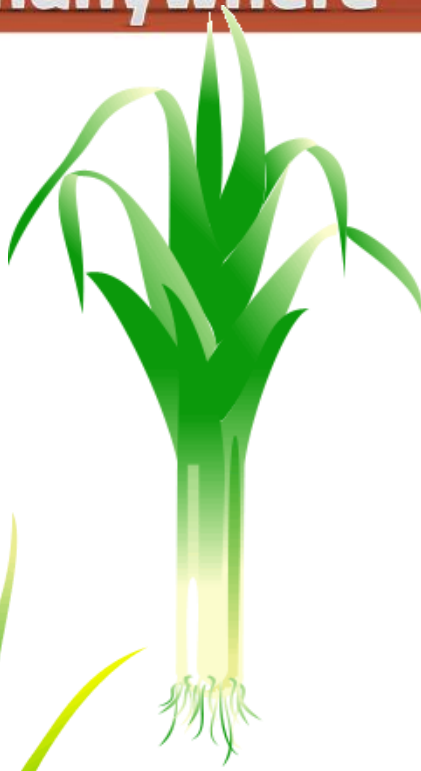
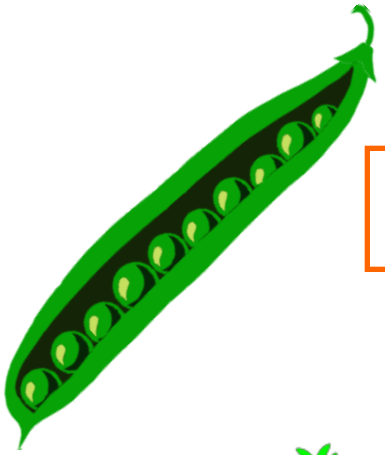
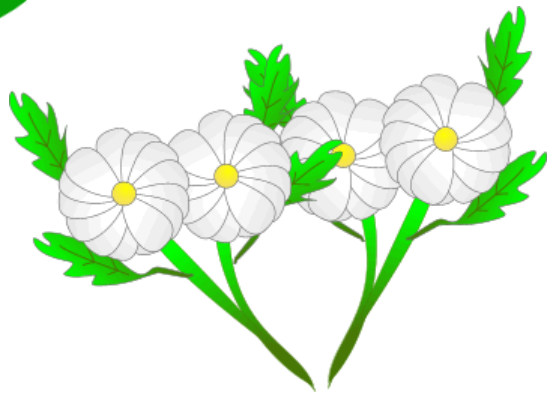
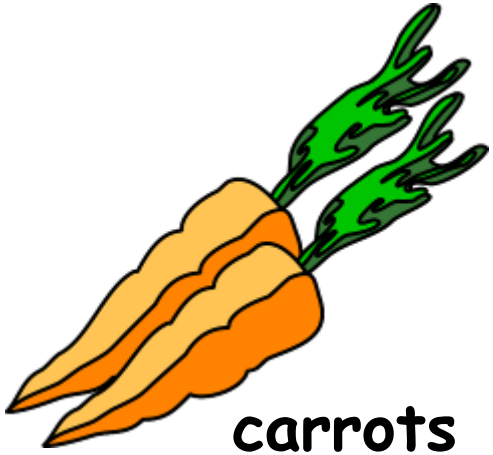



Helping plants grow well

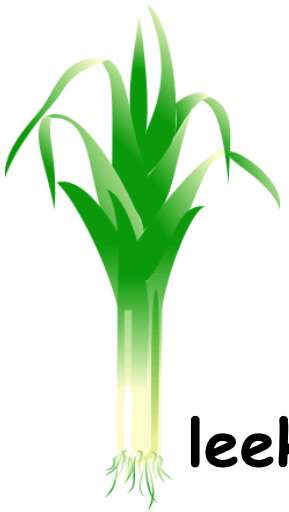


Yellow	some plants appear yellow if they are not healthy
Pale	a plant with no colour will look pale.
Thin	like the legs on your school chair
Spindly	thin and often crooked

onion



carrots

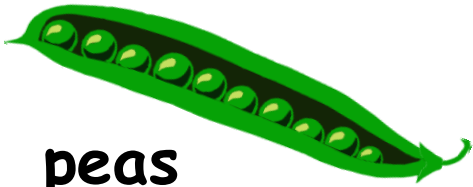


leek

pumpkin

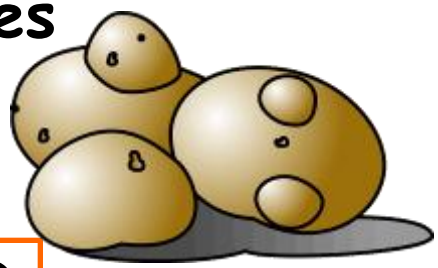
lettuce

tomato



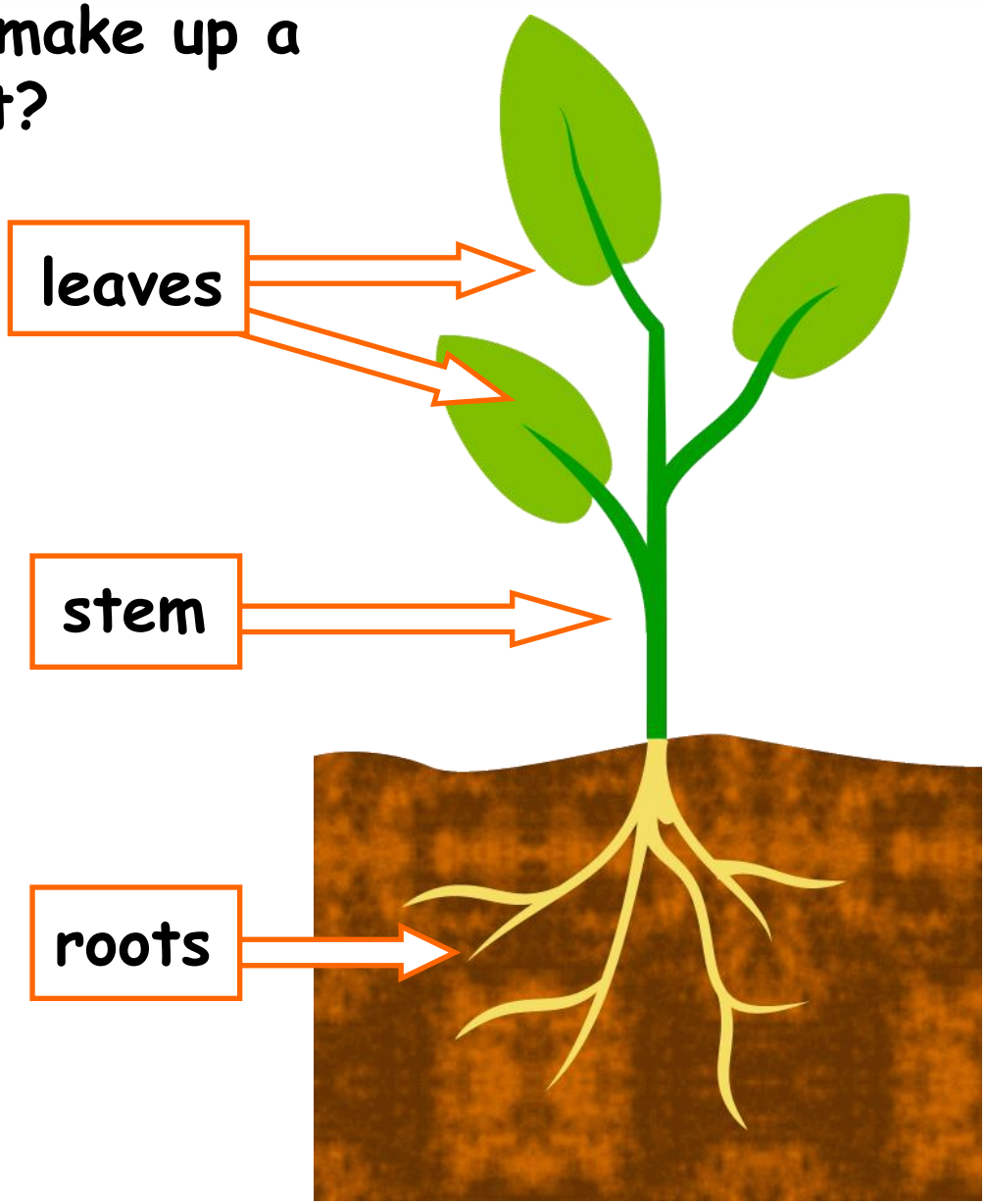
peas

potatoes



Why is it important for plants to grow well?

What parts make up a plant?

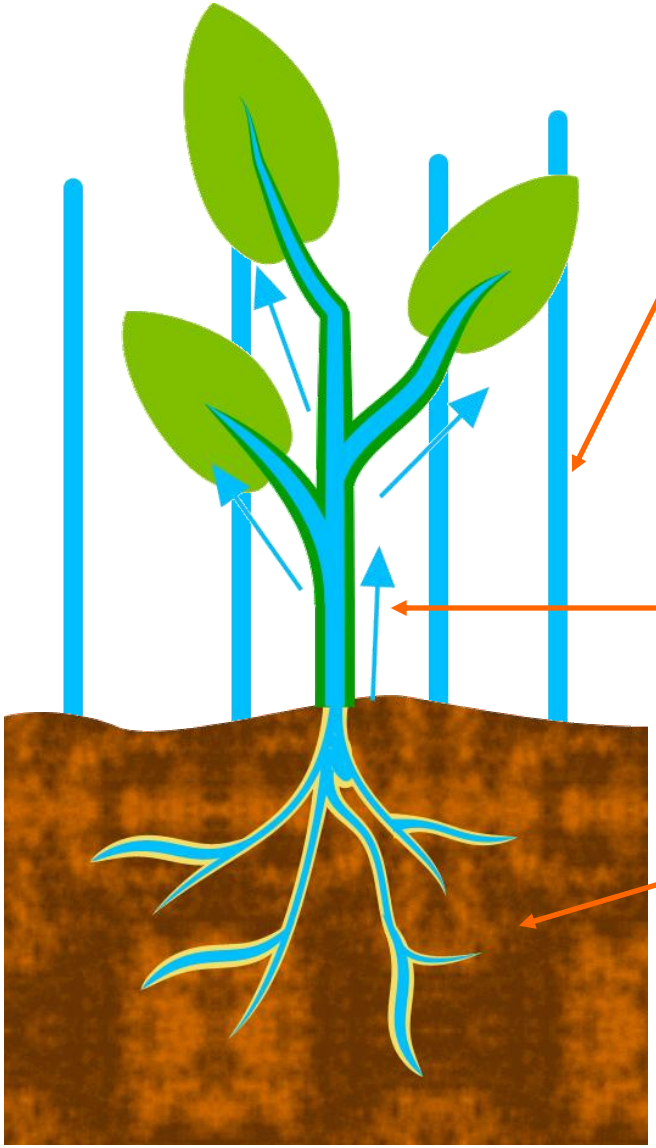


We have a number of geraniums. How do you think we can use them to see if the leaves are needed for the plant to grow?

How can we measure how much each plant grows?

How can we record these results?
Can you put these into a chart or graph?
What do your results tell you?

What do the roots do?

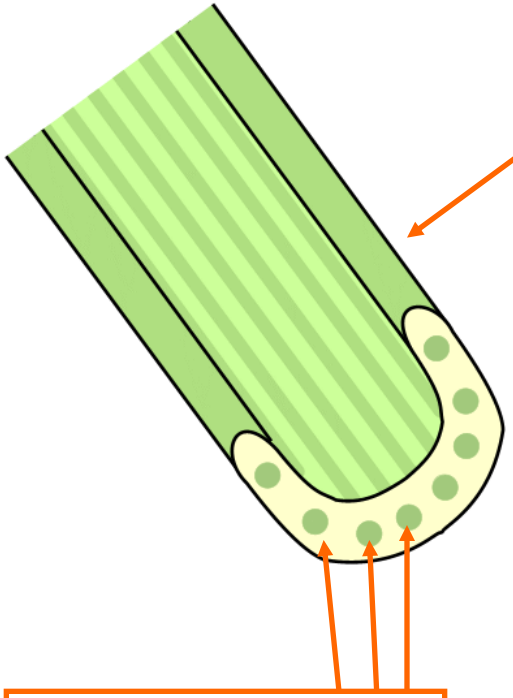


Rain falls and soaks into the ground

Water travels up the stem to the leaves

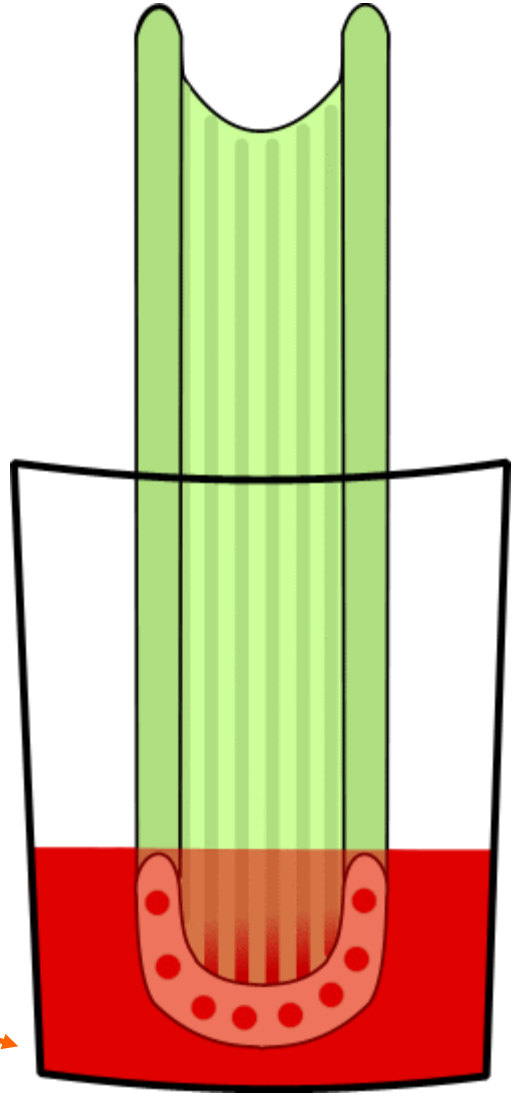
Roots soak up the rainwater

What does the stem do?

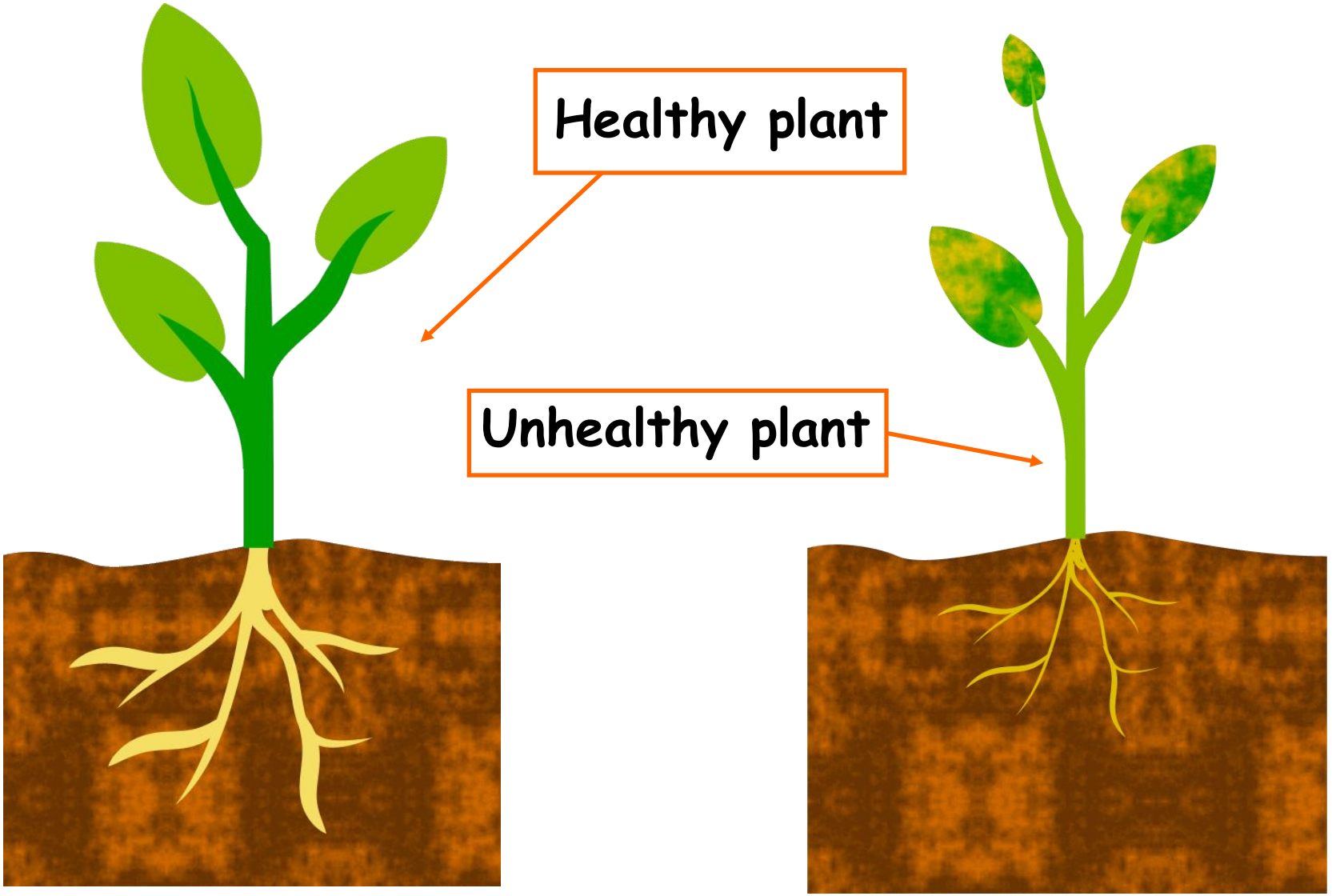


Celery

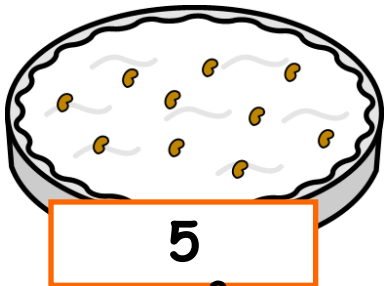
Xylem tubes
(like tiny drainpipes)

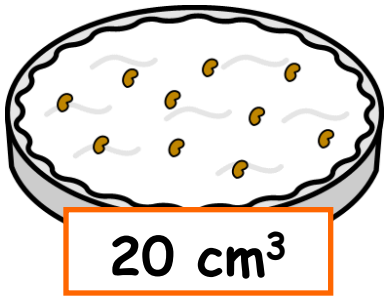


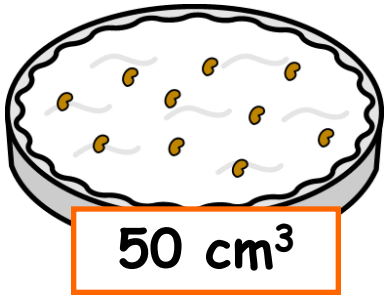
Coloured water


Healthy plant
Unhealthy plant

We know plants need water to be healthy. But can they have too much water?

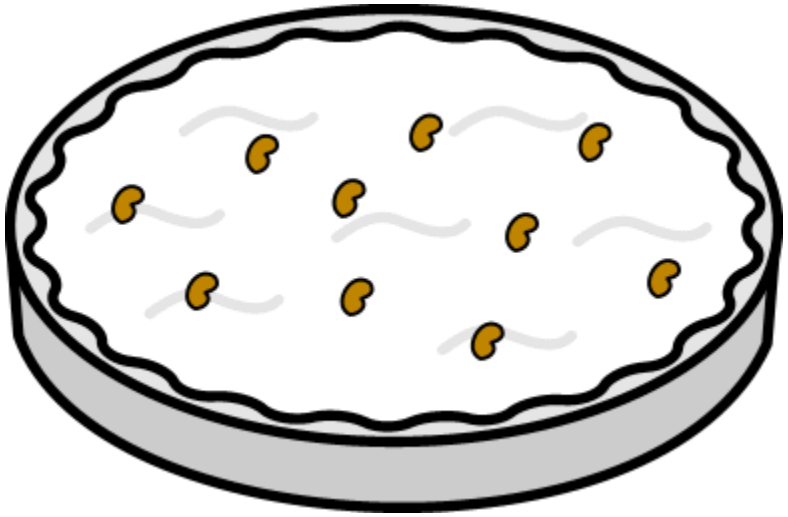






Do you think that each of the seeds will grow the same if you add the amounts of water each day? We will measure the plants every 2 days

Amount of water	Day 1	Day 3	Day 5	Day 7	Day 9
no water					
5 cm^3					
20 cm^3					
50 cm^3					



Do all the seeds grow the same?

Can too much water be added to a plant?

What evidence do you have for this?

How did you keep the test fair?

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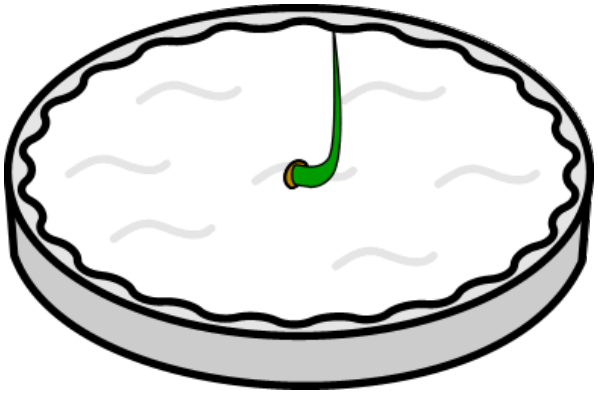
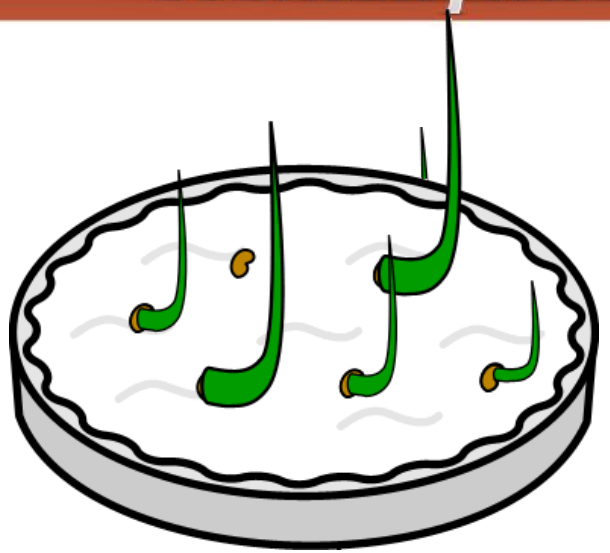
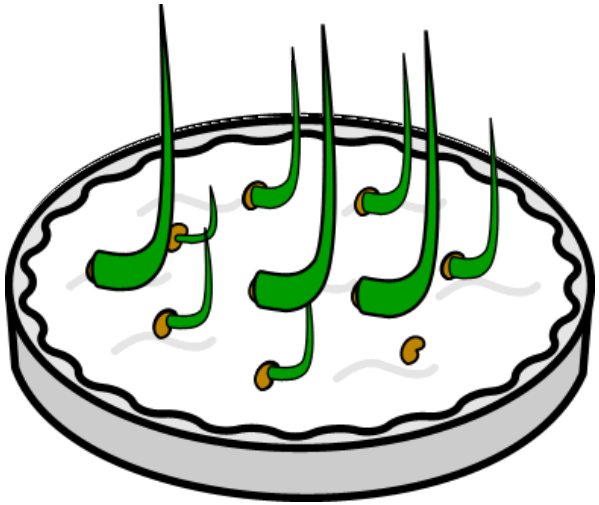
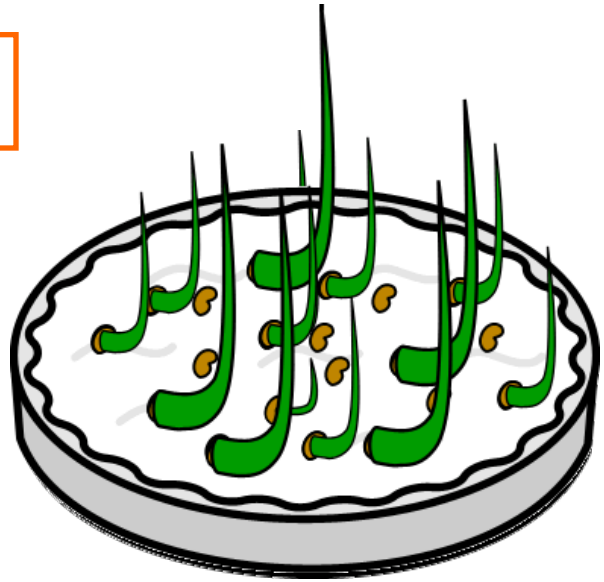
How much evidence do we need?





After 8 days



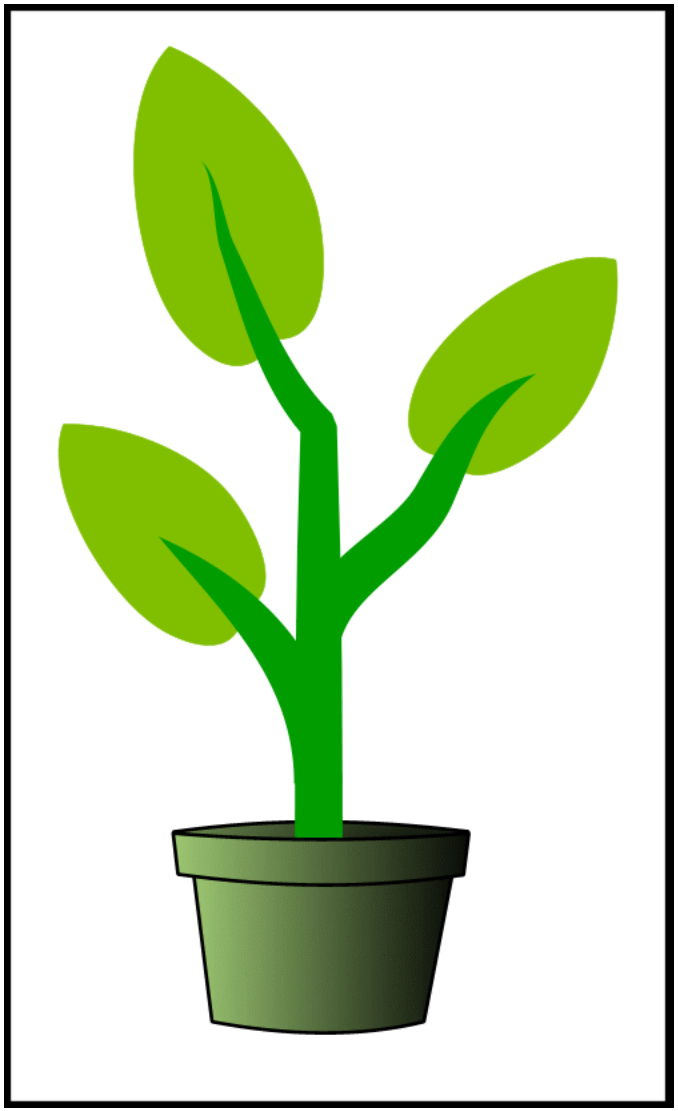


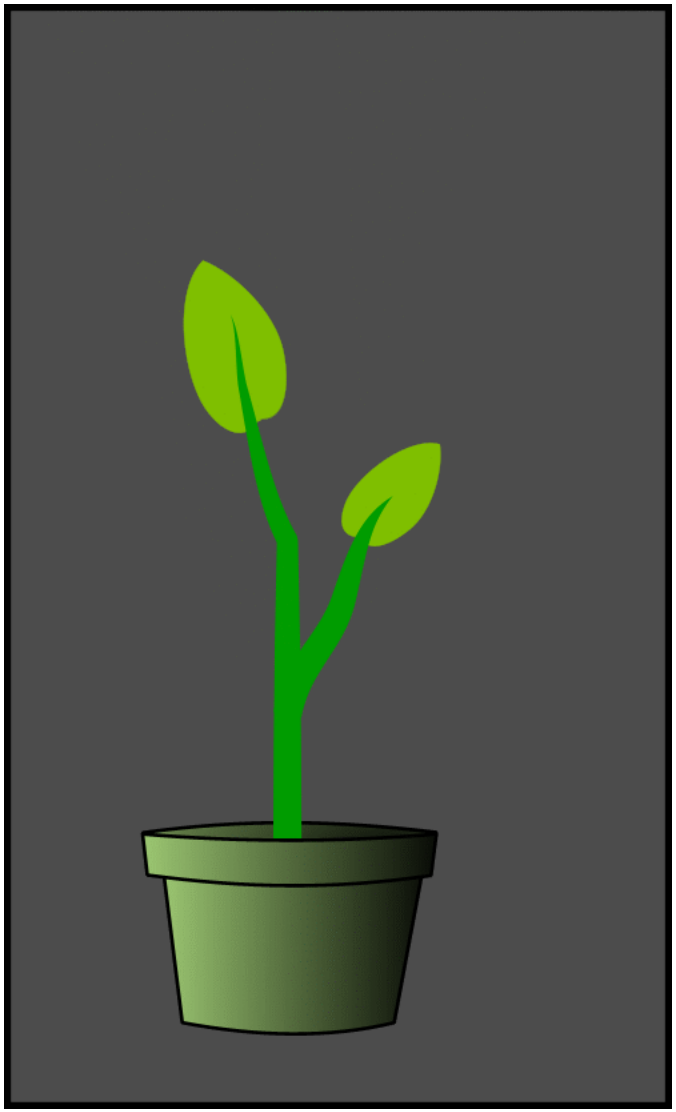
How many seeds do you think we should use?

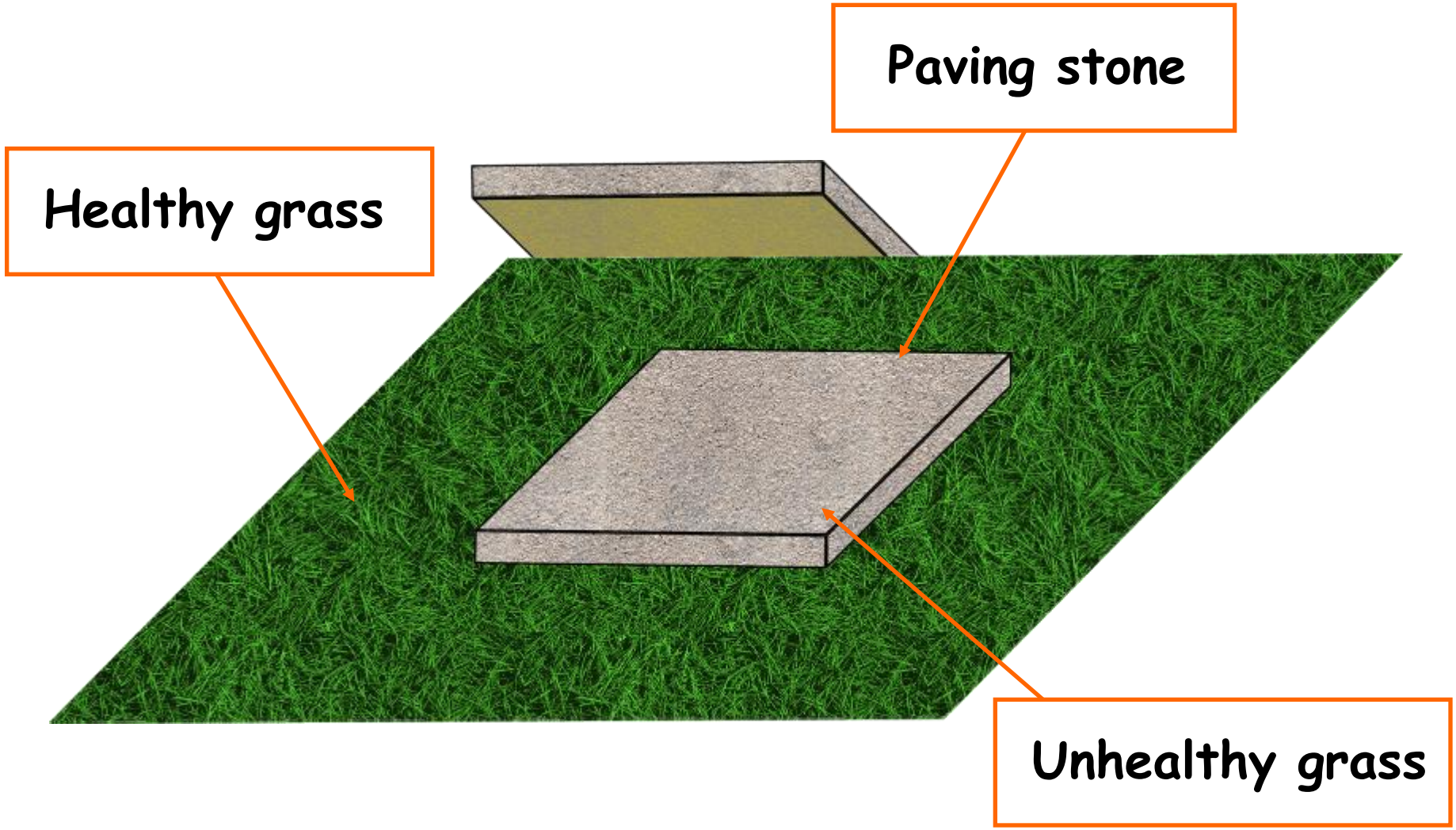
Why do you think this?

How many days do you think is enough days?

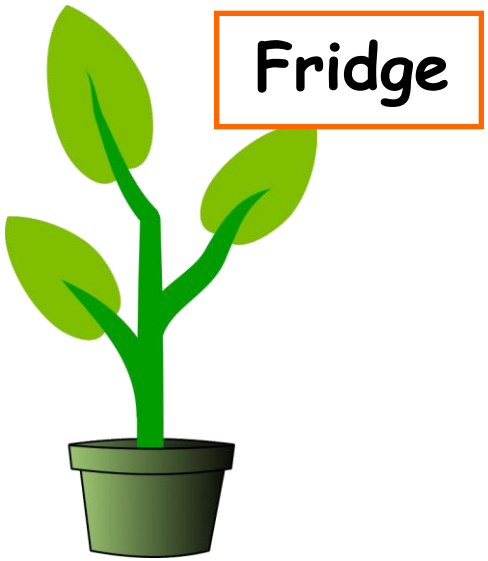
Why do you think this?

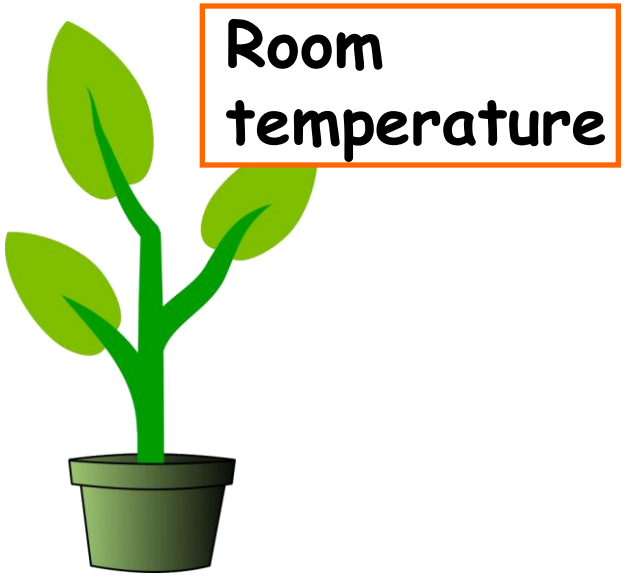





Paving stone
Healthy grass
Unhealthy grass

Plants and Temperature

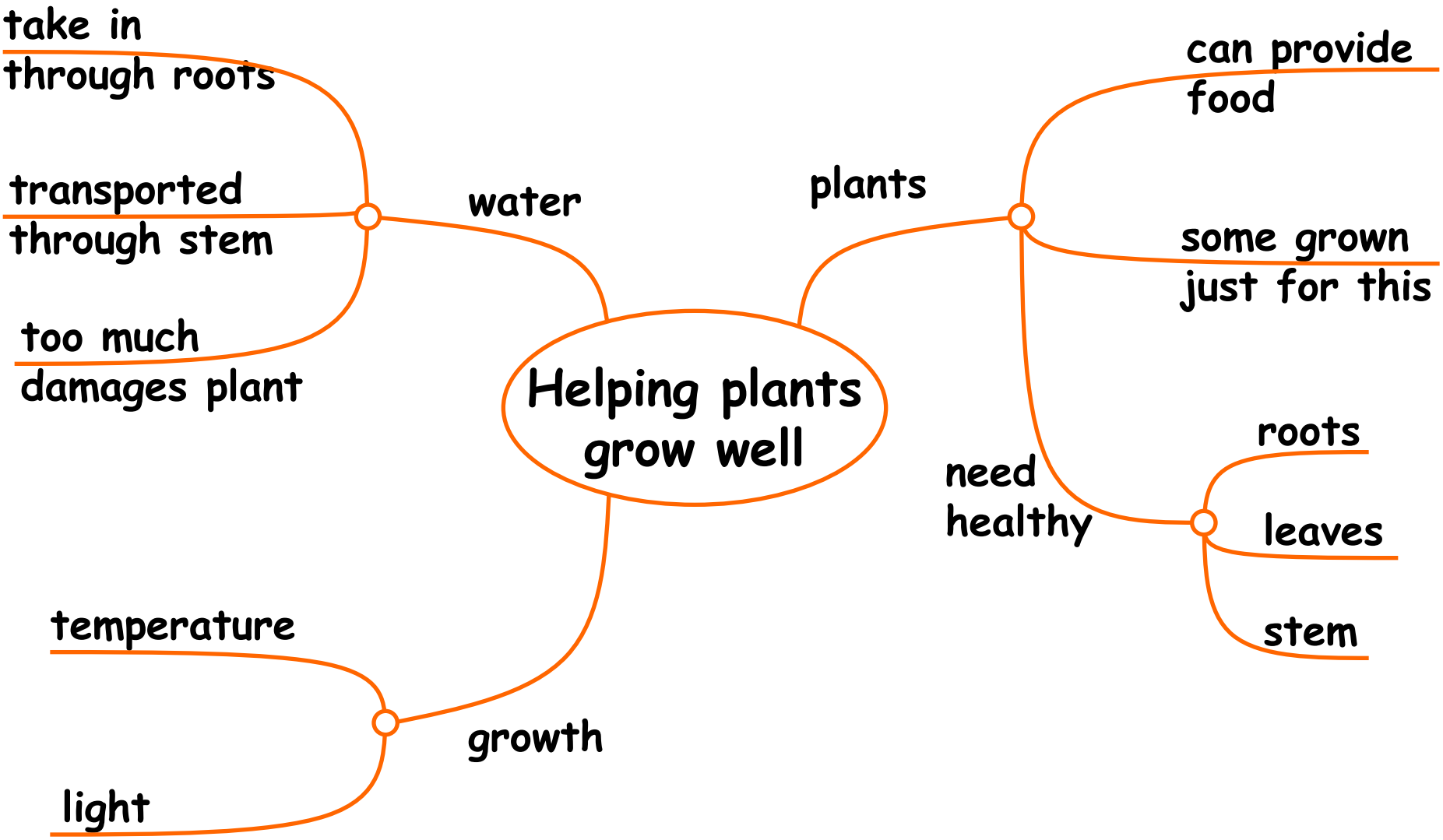




Which room is warmest?

Which plant do you think will grow the best?

Would this be a fair test?


Helping plants grow well
water
take in through roots
transported through stem
too much damages plant
plants
can provide food
some grown just for this
need healthy
roots
leaves
stem
growth
temperature
light