



Ashdene Primary School

Year 1 Science Project Plants

In our science project this week we want you to explore plants in a variety of places. Each day you will be given a different task to do which will help you to complete the challenge set for the end of the week. At the end of each day there are a selection of activities that you might want to do 'just for fun!' which will help you to expand your scientific knowledge.

You can present your work however you want - the more creative the better! You can take photographs, videos, produce artwork, write poetry, draw graphs, make a book (there is a template ready to download if you choose to use it). We would love to see your hard work so please send us an email on the class accounts 1D@ashdeneschool.net or 1H@ashdeneschool.net or post on the school twitter account.



Monday – Parts of a plant

There are plants all around us, can you name any of them?

What do they look like and what do they all have in common?

Do any of the plants you know about change at different times of the year?

1. Go into the garden to choose a flower to draw or take a photo of. Label the picture with as many parts of the plant as you can.

Watch the clip and add any extra information you forgot about.

<https://www.youtube.com/watch?v=bLhTgTwbYMI>

2. Can you draw and label the parts of a tree?
3. What differences can you see between the flower and the tree? Are any parts of the flower and tree the same?

Something to think about-

If a plant does not have a flower is it still a plant?

What makes a plant a plant?

Just for fun!

Collect a variety of flowers and plants to create your own 3D

Flowers are parts of a plant.

We eat lots of different plants. Can you find any plants, or parts of



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picture of a plant or garden.	Can you name any of the parts of a flower? https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-ivys-plant-workshop-the-anatomy-of-the-flower/zjmhkmn	plants, in your house that you eat? How do you know they are plants? Draw pictures of how they look on the outside and on the inside.
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Tuesday – Trees

There are plants all around us, can you name any of them?

Trees are a plant – how many trees can you see from the window, garden or your bedroom?

Do they all look the same? Do you think they are all the same type of tree?

Some trees stay the same all year round and these types of trees are known as **Evergreen**. The trees which change throughout the year are **Deciduous**.

- Evergreen trees have small green needle-like leaves, which they keep all year round.
- Deciduous trees have broad flat leaves which fall off in the autumn.

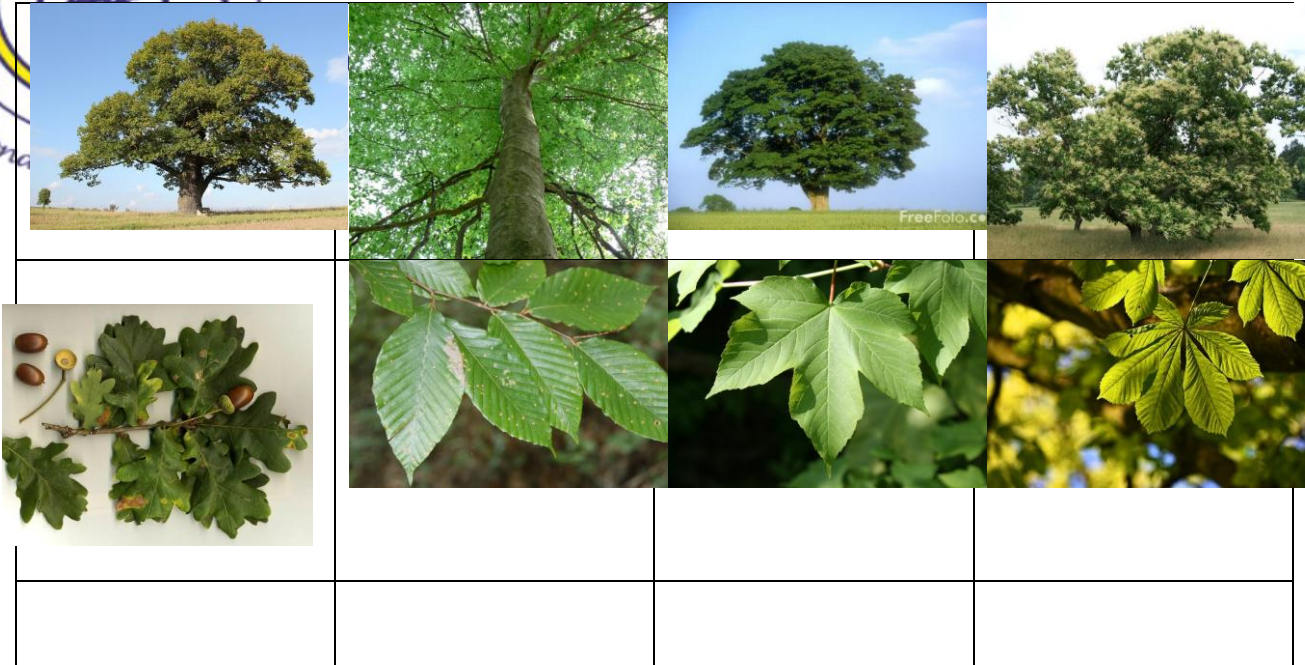
Now watch this video before having a go at answering the questions below:

<https://www.youtube.com/watch?v=ormoPFTt7gs>

1. We have 4 different types of trees linked with school; can you name them?

Info for adults - Chestnut, Sycamore, Oak and Beech

Here are some pictures of our house trees, can you name them?



2. Go for a short walk and have a look at the different trees that are around your house.
3. Draw a map of the route you took (you might want to draw the map before you leave the house) and mark on where you found the different types of trees.
4. Can you name the trees you saw on your walk? Did you see any that matched our house trees?

Something to think about-

Are trees important? Why do you think that?

What makes trees grow so tall?



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Just for fun!

Can you create a 3D sculpture of a tree?

Use a variety of materials from around the house or garden to create your very own tree eg. Playdough, clothes pegs, card, or lego.

Create a picture of a tree throughout the seasons. You could use a picture of 1 tree divided into 4 and each area decorated differently, or you could use 4 pictures of the same tree each decorated for the different seasons.

Trees are usually quite old. You can tell how old a tree is by counting the rings on the inside of the trunk. To do this you have to cut the tree down. Can you find a way of working out how old a tree is without cutting it down?



Wednesday – What do plants need to grow?

All the plants around us grow at different times of the year. Why do you think that is?

How do you think plants know when it is time to start growing?

Watch the clip and make notes about what you think plants need to grow successfully.

<https://www.bbc.co.uk/bitesize/clips/zcn9ji6f>

1. Record what you have found out in any way you want to.
2. Go into the garden or the park and see if you can find plants at different stages of growth.
3. Can you name any of the plants and sort them into different categories depending on how much growing they have done.

Something to think about-

Do all plants die when they have finished flowering? Do they ever come back on their own or do you have to plant them again?

Cactus plants live in very hot places where there is no water in the ground. How do they survive if all plants need water to grow?

Just for fun!

All plants grow from seeds.
If you have a big seed does that mean you will get a big plant? Do small seeds only grow small plants? You could conduct an experiment to find out.

Can you draw or create the stages of growth in a plant?
You could grow some seeds and take photos as the seeds start to grow.
Cress grows quickly and then you could eat it too.

Do bulbs grow plants in the same way? (**Not the kind you put in a light!**)
Put a bulb into a small glass and watch the results.
NB - Be selective about which bulbs you use because some have already grown this year.



Thursday – names of plants

There are plants all around us, and many of them are common to the garden, park or fields around where we live. Can you name any of the plants you can see?

Do any of them look similar? If so, how do you tell them apart?

Watch this video and see the different sorts of plants you may have in your garden- <https://www.youtube.com/watch?v=pwSLIIXj28>

1. Go into the garden and look at the different plants you can see. How can you tell what kind of plant they are?
2. Do you know what any of them are called?
3. Do any of them grow flowers, fruit or vegetables?
4. Take photos or draw pictures of 2 or 3 different plants and write down their names. You could also tell us if they produce flowers, fruit or vegetables.

Something to think about-

What is your favourite food to eat? Does this food, or any of the ingredients used to make it, come from a plant? Have a look in your fridge and kitchen cupboards- what plant based products can you find?

Just for fun!

Have a look on the computer, tablet or phone for some pictures of different types of flowers and see if you can find any of them in your garden or at the park.

Do plants grow in different substances?
Set up an experiment where you put the same plant in a variety of substances (sand, soil, gravel etc.) and see they grow.

Go on a minibeast hunt. Where do different types of minibeasts like to live.
Do the bees prefer the tulips or the lilies? Do the spiders like to build their webs in the trees or on the grass? What can you find out?

Friday – Escape the greenhouse

Trapped in the Greenhouse

You and your friend have had a lovely day tending to plants in your greenhouse. Your cucumbers are growing, the tomatoes are ripening and the chillies are almost ready for picking.

'I'm just going to get more water from the barrel,' your friend announces.

'Okay,' you reply, 'just don't move that broom, it's the only thing keeping the door....' Too late! The door slams shut. You can't remember the code to the keypad to open the door – that's why you'd left the broom propping open the door.

Solve the clues and puzzles to discover the passcode number needed to unlock the greenhouse door. The clues could be anywhere, so you need to keep your eyes peeled and your mind sharp!



Solve the clues to find out the keycode so you can get out of the green house. Use what you have learnt this week to help you.

Hope you can get out ready to enjoy the weekend.

See the attached files for clues and answers.