# Science Year 2 – Term 6



Science – Pl	ants continu	ued					
Term 6	Learning Question & NC Link	Substantive Knowledge To know that	Disciplinary Knowledge I can	Vocabulary	Assessment opportunity	Equipment & resources	
Session 1 Asking simple questions and recognising they can be answered in different ways	What are the basic parts of the plant? What is the function of each part of the plant?	To know the basic structure of plants (see vocab for parts to teach) and what part of the plant is above the ground and part below the ground. To know the function of what each part does e.g. the roots anchor the plant to whatever it is growing on. (Build upon this from year 1 – further embedding this knowledge)	To use their observations and ideas to suggest answers to questions. To be able to observe closely using simple equipment.	Seed, flower, roots, anther, stigma, petals, leaves, stem, fruit, branch, trunk, function, transport, sunlight, carbon dioxide.	Questions throughout the lesson. Record as pupil voice in science books. On post-its or in inverted commas.	Ipad/camera Science books Lab coat Science sign Science bag (Place a piece of science equipment in each week or something relevant to the lesson)	This is not a lesson plan – just possible/sugg Draw and label a plant – Use close observati especially good for this. Talk about the diffe Place under the visualiser or have flowers or <b>CAN YOU DISSECT A</b> <b>FLOWER?</b> You could dissect a flower as above. Does the plant have buds – what is a bud? W What other parts can they identify? Recap parts of a tree – trunk, leaves, roots, f Complete a labelling activity e.g. EXT: What other parts can you label? What is the function of each part ? https://www.bbc.co.uk/bitesize/topics/zpxnt t,into%20food%20for%20the%20plant. The above link has some useful information Children could record some of the functions e.g. Roots absorb minerals Plants have different parts to them, just like The stem transports water around the plant Leaves make food for the plant and keep it up Petals attract insects to the plant.
Session 2 Observing	Do plants need light to grow?	To know the basic needs of a plant. To know that plants need water, light and a suitable temperature to grow and stay healthy. To know and apply the scientific vocabulary to talk about what they have found out. To know what seeds and bulbs need to grow healthily.	To be able to observe and describe how seeds grow into mature plants. To be able to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. To be able to perform a simple test.	Light, cress, survive, observe	Questions throughout the lesson. Record as pupil voice in science books. On post-its or in inverted commas.	Science books Lab coat Science sign Science bag Science books Lab coat Science sign Science bag Cress seeds or plants	Do plants need light to grow? – Investigat You could grow cress in the light and dark – of small plants. Place a sample in a dark plac water the plants? Encourage the children to predict what they describe how it will grow/not grow. What co Compare the 2 samples after a few day/1 we Refer to science poster – investigation over

### Lesson ideas

#### jested ideas.

ion skills to observe real plants if possible. Large flowers like lillies are erent parts. Recap basic parts of plants – roots, seeds, flowers, leaves. n the tables for the children to look at.



## What is a shoot?

fruit.

## wrd/articles/z2vhxbk#:~:text=The%20roots%20keep%20the%20plan

n and videos.

s in their books too.

e you. ...

t. ... n dioxide in the air and sunlight. oright. ...

#### tion

- cress grows quickly so is quite good to use or you could use a couple ace and light place. Observe the changes over time. Should we still

y think will happen. They could draw their predictions and label to olour will it grow?

eek.

time.

Session 3 Using their observations and ideas to suggest answers to questions.	Do plants need warmth to grow?	To know the basic needs of a plant. To know that plants need water, light and a suitable temperature to grow and stay healthy. To know and apply the scientific vocabulary to talk about what they have found out. To know what seeds and bulbs need to grow healthily.	To be able to observe and describe how seeds grow into mature plants. To be able to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. To be able to perform a simple test.	Light, warmth, grow, temperature, healthy,	Questions throughout the lesson. Record as pupil voice in science books. On post-its or in inverted commas.	Science books Lab coat Science sign Science bag Cress seeds or small plants	Look at samples from last week's investigati Draw a conclusion about if plants need ligh Do plants need warmth to grow? – Investig Will we still need to water the plant? Give it Repeat last week's investigation, drawing or experiment last week. What did we do? What Introduce todays investigation, again this wi grow? Where can we place the plant/cress samples Record predictions in books using drawings,
Session 4 Gather and record data to help in answering questions	Where do plants grow best?	To know and describe the basic conditions for plant growth. To know that plants need water, light and a suitable temperature to grow and stay healthy. To know and apply the scientific vocabulary to talk about what they have found out. To know what seeds and bulbs need to grow healthily.	To be able to perform a simple test.	Over time, hydroponics, healthy, grow, soil, cress, survive, adapt.	Questions throughout the lesson. Record as pupil voice in science books. On post-its or in inverted commas.	Science books Lab coat Science sign Science bag Beans Clear containers Sand, soil, stones	Look at last week's investigation over time – they grow? How are they different? Draw a conclusion about if plants need warm Research where plants grow – e.g. desert, po do they survive – link to previous learning ab survive. Introduce today's question – <b>Where do plan</b> Refer back to the bean in the bag – did the b Using beans devise an investigation with you will grow in e.g. sand, soil, stones, water etc. Suggestion – use plastic cups or bottles so th happen along the way. Take a photo of the experiment that has bee write about what they think will happen and so far
Session 5 Performing simple tests	Can you regrow vegetables?	To know the basic needs of a plant. To know that plants need water, light and a suitable temperature to grow and stay healthy. To know and apply the scientific vocabulary to talk about what they have found out. To know what seeds and bulbs need to grow healthily.	To be able to perform a simple test.	Sprout, root, shoot, leaves, healthy, vegetables, regrow,	Questions throughout the lesson. Record as pupil voice in science books. On post-its or in inverted commas.	Science books Lab coat Science sign Science bag Vegetable tops	<ul> <li>Plants grow from seeds but can you regrow to what will happen to the vegetablesDration look the same? Can you see any new grow of the same? Can you see any new grow of the same? Can you see any new grow of the same? Can you see any new grow of the same? Carrot cele solution to the same? Bowls Carrot cele solution to the same set of the</li></ul>

tion – record observations in book and compare with their predictions. ht to grow? (Plants need light to grow healthily)

#### igation light?

n the knowledge the children gained from carrying out the at did we find out?

ill need to be over time. How can we find out if plants need warmth to

s? (fridge/sunny window)

, labels and/or brief explanation.

- what has happened to the plants/cress samples? Any change? Did

mth to grow. What have we learnt?

onds and rivers, on rocks. What type of plants grow where and how bout animals and how they adapt to their surrounding in order to

## nts grow best?

bean grow? When plants grow in water we call this.... hydroponics.

our class where the children decide what different materials the bean

hat the children can see when the bean germinates and what changes

en set up in the main teach for the children. Ask them to label and why, using their previous knowledge of the experiments carried out

other parts of the vegetable. Get the children to make suggestions as aw what they think the vegetable will look like when it regrows....will it rowth? What is growing - the shoots, leaves or roots



carrot in a shallow bowl of n the top. Keep inside and place

stalk and place in a small bowl to grow from the centre of the y spot.

l of lettuce and place it in a prow in around 3 days. Keep

he onion, with any roots still d it will start to grow. Keep









Notes	

