

Signhills Infant Academy Science Big Ideas



Plants



Comparative/ fair testing

Changing one variable to see its affect on another, while keeping everything else the same.



Observation over time

Observing changes that occur over a period of time ranging from minutes to months.



Pattern Seeking

Identifying patterns and looking for relationships in enquires where variables are difficult to control.



Identifying, grouping and classifying

Make observations to name, sort and organise items.

Build an Overview



Asking questions



Making
predictions



Setting up tests



Observing and
measuring



Recording
data



Interpreting and
Communicating
results



Evaluating

Signhills Infant Academy Science Big Ideas



Animals including
humans



Research

Use secondary sources of
information to answer scientific
questions.



Pattern Seeking

Identifying patterns and looking
for relationships in enquires
where variables are difficult to
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Identifying, grouping and classifying

Make observations to name,
sort and organise items.

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Asking questions



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Interpreting and
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Materials



Comparative/ fair testing

Changing one variable to see its affect on another, while keeping everything else the same.



Observation over time

Observing changes that occur over a period of time ranging from minutes to months.



Pattern Seeking

Identifying patterns and looking for relationships in enquires where variables are difficult to control.



Identifying, grouping and classifying

Make observations to name, sort and organise items.

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Making predictions



Setting up tests



Observing and measuring



Recording data



Interpreting and
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results



Evaluating

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Living things and their habitats



Research

Use secondary sources of information to answer scientific questions.



Pattern Seeking

Identifying patterns and looking for relationships in enquires where variables are difficult to control.



Identifying, grouping and classifying

Make observations to name, sort and organise items.

Build an Overview



Asking questions



Making predictions



Recording data

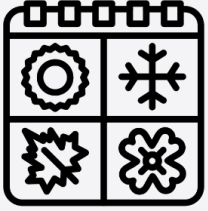


Observing and measuring



Interpreting and Communicating results

Signhills Infant Academy Science Big Ideas



Seasonal Changes



Research

Use secondary sources of information to answer scientific questions.



Pattern Seeking

Identifying patterns and looking for relationships in enquires where variables are difficult to control.



Observation over time

Observing changes that occur over a period of time ranging from minutes to months.

Build an Overview



Asking questions



Making predictions



Setting up tests



Observing and measuring



Recording data



Interpreting and Communicating results

Signhills Infant Academy Science Long Term Plan

Year Groups	Autumn	Spring	Summer
Reception	<u>Seasonal Changes</u> - Signs of Autumn <u>Animals and their habitats</u> - Some animals sleep through the winter. - Some animals are awake during the night. - Animals need food, water and shelter. <u>Plants</u> - Plants need water and light to grow - Fruit and vegetables are grown on trees or in the ground.	<u>Seasonal Changes</u> - Signs of Spring <u>Contrasting Environments</u> - Different animals live in different places <u>Plants</u> - Plants need water and light to grow <u>Life Cycles</u> - Animals change over time <u>Healthy Eating</u> - We need to eat a balanced diet to keep healthy.	<u>Seasonal Changes</u> - Signs of Summer <u>Materials</u> <u>Animals and their habitats</u> - Some creatures live underwater.
Year 1	<u>Seasonal Changes</u> - Name seasons in order and describe typical weather - Name activities and events in the four seasons - Describe appearance of trees in each season - Record data about temperature across the seasons <u>Everyday Materials</u> - Name objects and identify materials they are made from - Recognise that objects are made from materials that suit their purpose - Recall that a property is how a material can be described - Sort objects based on the materials they're made from - Group objects based on their properties	<u>Sensitive Bodies</u> - Draw and label human body part - Identify the body parts associated with each sense - Compare and group body parts <u>Comparing Animals</u> - Name and describe the physical features of a range of animals - Sort animals into groups based on their similarities and differences - Identify characteristics specific to mammals, birds, reptiles, amphibians and fish - Recall the diets of carnivores, herbivores and omnivores	<u>Introduction to Plants</u> - Identify plants and their features - Recall some of the roles that flowering plant parts have - Name some trees and their parts - Identify similarities and differences between deciduous and evergreen leaves - Recall that seeds and bulbs come from plants - Recognise that seeds need water for growth <u>Investigating Science through Stories</u> - Identify the typical weather associated with each season - Describe animal features - Recognise similarities and differences between animals in the same animal group - Build an animal home with natural materials - Explain the difference between carnivores, herbivores and omnivores
Year 2	<u>Habitats</u> - Recall some life processes, giving examples of how they apply to plants and animals - Match different plants and animals to their habitats - Give examples of how animals use their habitat for food and shelter	<u>Uses of Everyday Materials</u> - Name objects with the same use that are made from different materials - Name materials that are used to make objects with different uses - Recognise that stretching, twisting, bending and squashing	<u>Plant Growth</u> - Recall that seeds have all the necessary parts inside for plants to grow - Recall that seeds need water and warmth to germinate - Recognise that light is required for healthy plant growth - Sequence the stages of plant's life cycle

