





Compare how things move on different surfaces Notice that some forces need contact between two objects

Identify the effects of air resistance, water resistance and friction

Forces

- Identify the effects of air resistance, water resistance and friction

Compare and group materials based on magnetism

- Observe how magnets attract and repel each other
- Recognise some mechanisms

Identify some magnetic materials

Describe that magnets have 2 poles

Predict if 2 magnets will attract or repel

Explain that objects fall because of gravity





Secondary

ready

EYFS

Recognise that we need light to see things Notice that light is reflected from surfaces Recognise that light from the sun is dangerous and how to protect

Find patterns between the volume of a sound and vibrations

Recognise that sounds get fainter as the distance increases

Find patterns between the pitch of a sound and features of what

Identify how sounds are made







Light and Sound



Electricity

Darlinghurst ACADEMY

Secondary ready

EYFS

- Recognise that a switch opens and closes a circuit Recognise some simple conductors and insulators
- Identify whether or not a lamp will light in a simple series
- Identify common electrical appliances Construct a simple circuit, identifying its parts

Breadth of study



Describe the movement of the Earth and other planets

- Describe how the moon moves in relation to the Earth Describe the Sun, Earth and Moon as approximately
- Talk about the Earth's rotation to explain day and night

Earth and Space

Secondary ready

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- Describe physical properties of some materials Distinguish between an object and the material with which it is made
- Find out how the shapes of solid objects made from some materials can be changed

- Identify and compare the suitability of materials for particular uses Observe that some materials change state when they are heated or cooled
- Compare and group things together solids, liquids, gases Compare and group together materials based on their properties
- Use knowledge of solids, gases and liquids to decide how mixtures might be separated

Materials

- Recognise that some materials will dissolve in liquid to form a solution Give reasons, based on evidence of tests, for the particular uses of materials Demonstrate that dissolving, mixing and changes of state are reversible changes

- Explain that some changes result in irreversible changes.



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Secondary ready





- Identifying, naming and describing plants Identify and describe function of parts of plants

EYFS

- How do plants grow?

- Describe life processes in plants Group, classify and name plants in local environment

Plants

Secondary

ready





Secondary ready

- adapt to their environment Recognise that offspring is not identical to parents

- Describe how living things are classified Recognise how living things have changed overtime and

Animals

- Identify nutritional needs of animals
- Describe the basic needs of animals
- Name, identify and compare fish, amphibians, reptiles Observe that animals have offspring and grow into adults

EYFS



- Identify, name, draw and label parts of human body and link to the senses
- Identify basic needs of humans Describe the importance of exercise, healthy eating and
- Describe the function of the human digestive system and

Humans

teeth

Secondary ready

> Darlinghurst ACADEMY





Science



Secondary ready

- Understanding electrical circuits Understand the earth's movement in space

- Investigating sound and hearing Understanding movement, forces and magnets
- Understanding light and seeing
- Investigating materials
- Understanding evolution and inheritance
- Investigating living things
- Understanding plants Understanding humans and animals
- Working Scientifically

EYFS

Key Concepts

Year 1 and 2 askir

2 asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment

- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions

- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identifying differences, similarities or changes related to simple scientific ideas and processes
- using straightforward scientific evidence to answer questions or to support their findings.
- planning atterent types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments.

Working scientifically



Year 3 and 4

Secondary

ready

Year 5 and 6

EYFS