



Science

# SCIENCE CURRICULUM MAP

## Year A



Science

Understand the scientific methods and theories develop as scientist modify earlier explanations to take account of new evidence and ideas

Planning different types of scientific enquires to answer questions, including recognising and controlling variables where necessary

Plan and design experiments to make observations and to test predications, including identifying independent, dependent and control

### Earth and Space (A)

- ☐ Astronomy terminology
- ☐ Researching and presenting on Earth and Space
- ☐ History of Astronomy
- ☐ What cause the seasons
- ☐ Day and night
- ☐ Time zones
- ☐ Phases
- ☐ Of the moon



### Forces (A)

- ☐ Gravity
- ☐ Buoyancy
- ☐ Friction
- ☐ Air/Water resistance
- ☐ Investigations



### Transition to Secondary

### Properties of Materials (A)

- ☐ Properties of Materials
- ☐ Testing properties of Materials
- ☐ Conductors and Insulators Investigation
- ☐ Chemical reaction
- ☐ Reversible and irreversible changes and soluble and insoluble substances

### Animals including Humans(A)

- ☐ Changes as Human develop



### Living Things and their Habitats (A)

- ☐ Parts of a flower, reproduction in plants
- ☐ Wind pollution and insect pollination
- ☐ Comparing animal life cycle

- ☐ How babies develop
- ☐ Famous Naturalist and Animals Behaviourist

### Forces & Magnets (A)

- ☐ Labelling Forces on Magnets and Springs
- ☐ Magnet and non-magnetic objects
- ☐ Investigation of magnets
- ☐ Investigation of forces

### Pupil Asset

- End of unit assessment
- Teacher assessment
- End of Year Report

UPKS2

### Investigative

- ☐ taking measurements, using a range of scientific equipment, with increasing accuracy and precision
- ☐ Fair testing/Variable

### Light (A)

- ☐ Light sources
- ☐ Shadows in the shape of objects
- ☐ How shadows are formed during the day
- ☐ Transparent and opaque
- ☐ Mirrors and reflection
- ☐ Shadow puppet show



### Rocks (A)

- ☐ Types of Rocks
- ☐ Characteristics of different types of Rocks
- ☐ Comparing and investigation on types of soil
- ☐ How fossils are formed
- ☐ How rocks become soil



### Animals including Humans (A)

- ☐ The food pyramid
- ☐ Nutrients
- ☐ Human skeleton
- ☐ Human and animal muscles
- ☐ Diet – carnivores/omnivores/herbivores

### Investigation – presenting results

End of unit assessment

### Seasonal Changes (A)

- ☐ Types of weather
- ☐ Clothes for winter and summer
- ☐ Seasonal tasks
- ☐ Trees across the seasons
- ☐ Animals in winter
- ☐ Data Handling favourite seasons

### End of Year Assessment Unit

- ☐ Investigative assessment
- ☐ End of year reports
- ☐ Pupil Asset
- ☐ End of unit assessment

LSK2

- ☐ Life cycle of flowering plants
- ☐ Investigation on Plants needing Water
- ☐ Investigation on Plants Needing sunlight
- ☐ Investigation on Plants with Food Colouring

- ☐ Plant adaptation
- ☐ Diagram of a plant



### Everyday Materials (A)

- ☐ Properties of Material
- ☐ Objects and materials they are made from
- ☐ Waterproof materials
- ☐ Absorbency investigation
- ☐ Strength investigation
- ☐ Transparent and opaque
- ☐ Object and chosen materials

### Animals Inc. Humans (A)

- ☐ Sense-using 5 Sense
- ☐ Parts of a body/face
- ☐ Names of mammals/amphibians, reptiles, fish
- ☐ Carnivores/omnivores/herbivores
- ☐ Comparing animals

### Plants (A)

- ☐ Planting seeds
- ☐ Parts of a plant
- ☐ Classifying foods/fruit
- ☐ Common flowers
- ☐ Evergreen trees

EYS KS1

Investigate plant growth

- ☐ Asking simple questions and recognising that they can be answered in different ways
- ☐ Observing closely, using equipment
- ☐ Identifying and classifying

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EYS/KS1

KS1/KS2

KS1/KS2

KS2/KS3

### SCIENCE SKILL

Asking simple questions and carrying out Fair/Comparative Test

### SCIENCE SKILL

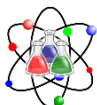
Observing, identifying, classifying, measuring and recording/presenting data

### SCIENCE SKILL

Drawing conclusions, noticing patterns and presenting finding

### SCIENCE SKILL

Using Scientific Evidence and Secondary sources of information



Science

# SCIENCE CURRICULUM MAP

## Year B



Science

Understand the scientific methods and theories develop as scientist modify earlier explanations to take account of new evidence and ideas

Planning different types of scientific enquires to answer questions, including recognising and controlling variables where necessary

Plan and design experiments to make observations and to test predications, including identifying independent, dependent and control

### Light

- How we see
- Reflecting Light
- Refraction
- Spectacular Spectrum
- Seeing Colours
- Shadow Theatre
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### Electricity

- Circuit Symbols
- Volts
- Electricity Investigation Part 1
- Electricity Investigation Part 2

### Transition to Secondary

### Evolution and Inheritance

- Inheritance
- Adaptation
- Theory of Evolution
- Evidence for Evolution
- Evidence of Evolution: Humans
- Adaptation, Evolution & Human Intervention

### Animals including Humans

- The Circulatory Systems: Parts
- The Circulatory System: Functions
- Transporting Water & Nutrients
- Healthy Lifestyles
- Exercise Investigation
- Impact of Drugs & Alcohol

### Living Things and their Habitats

- Classifying Conundrums
- Linnaean Systems
- Curious Creatures
- Microorganisms
- More about Microorganisms
- Field Guide

### Electricity

- Exciting Electricity
- Electrical Appliances
- Electrical Circuits
- Conductors and Insulators
- Splendid Switches
- Investigating Switches

**Pupil Asset**  
**End of unit assessment**  
**Teacher assessment**  
**End of Year Report**

**UPKS2**

- taking measurements, using a range of scientific equipment, with increasing accuracy and precision
- Fair testing/Variable

### Investigative

### Sound

- Good Vibrations
- Hearing sounds
- Higher and Lower
- String Telephone
- Soundproofing
- Making Music

### States of Matter

- Solids, Liquid or Gas?
- Investigating Gases
- Heating and Cooling
- Wonderful Water
- Evaporation Investigation
- The Water Cycle

### Animals including Humans

- Digestive System Parts
- Digestive System Function
- Types and Functions of Teeth
- Tooth Decay Enquiry Part 1 & 2
- Digestive System Parts

### Investigation – presenting results

End of unit assessment

### Animals including Humans

- Animal Offspring
- Life Cycles
- Growing up and changing
- Survival
- Exercise
- Healthy Living

### End of Year Assessment Unit

- Investigative assessment
- End of year reports
- Pupil Asset
- End of unit assessment

**LSK2**

### Living Things and Their Habitats

- Grouping Living Things
- Classifying Vertebrates
- Invertebrate hunt
- Classification Keys – very simple
- Local habitat survey
- Environmental Changes

### Uses of Everyday Materials (B)

- Identifying Uses
- Out and about and classify materials
- Comparing suitability
- Changing shapes
- Recycling
- Discovering new materials

Testing Materials

### Plants

- Observing plants
- Seeds and Bulbs
- Life cycles
- What do plants need?
- Plants that we eat
- How different plants grow
- Investigate plants growth

### Living Things and Their Habitats

- Living, Dead and near alive
- Local Habitats
- Microhabitats
- Food chains

- Asking simple questions and recognising that they can be answered in different ways
- Observing closely, using equipment
- Identifying and classifying

**INSERT ASSESSMENT TITLE WHERE NEEDED**

**EYS K51**

EYS/KS1

KS1/KS2

KS1/KS2

KS2/KS3

### SCIENCE SKILL

Asking simple questions and carrying out Fair/Comparative Test

### SCIENCE SKILL

Observing, identifying, classifying, measuring and recording/presenting data

### SCIENCE SKILL

Drawing conclusions, noticing patterns and presenting finding

### SCIENCE SKILL

Using Scientific Evidence and Secondary sources of information