Primary Science Route Map

Y1 Animals inc Humans
ID and Name Animals
ID Carni/Herb/Omni
Describe and Compare Struc
ID parts of the body / senses

Y2 Living Things and Habitats
Living/Dead/Alive
What are habitats
How they provide basic needs
ID name animals/plants in dif habitats
Basic food chains. Animals eat plants.

Y2 Animals Inc Humans
Animal offspring
Basic needs of animals
Importance of exercise, balanced diet
And hygiene

Y3 Animals inc Humans
Skeletons and muscles
Types of nutrition

Y4 Living Things and Habitats
Grouping living things (anim/plant)
Vertebrate/invertebrate
Classification keys
Changing environments / dangers

Y4 Animals inc Humans
Function of digestive system
Types of teeth / roles
Food chains, producers,
pred/prey

Y5 Living things and Habitats
Life cycles - mammal, bird, insect,
amphibian
Life processes of reproduction -
plants/animals

Y5 Animals inc Humans
Changes as humans develop
to old age (life cycle). Puberty

Y6 Living Things and Habitats
Classifying living things into
broad groups
Classifying plants and animals
Keys

Y6 Animals Inc Humans
Circulatory system
Diet/Exercise/Drugs
Nutrients/Water transport

Y1 Plants
ID and Name Plants
Basic structure of plants
Deciduous/Evergreen

Y2 Plants
Seeds into plants
Needs of plants to stay healthy

Y3 Plants
Functions of parts of plant
Requirements for life
Water transport
Flowers - pollination, seeds, dispersal

Y6 Evolution and Inheritance
Living things change over time
Evidence of fossils
Offspring vary
Adaptation leading to evolution

Y1 Everyday Materials
Objects/materials
ID and name
Describe properties
Compare/group

Y2 Uses of Everyday Materials
Suitability of materials for jobs
Changing shapes of objects

Y3 Rocks
Grouping - appearance and
properties of rocks
Fossils
Soils

Y4 States of Matter
Group - SLG
Particles
Changes of state
Water cycle - evap/cond

Y5 Properties and changes of Materials
Compare/Group materials
Dissolving, Separating mixtures
Testing materials -> properties / uses
Reversible changes
Non-reversible changes

Y1 Seasonal changes
Observe changes across seasons
Observe and describe weather/
how day length varies

Y5 Earth and Space
Movement of earth / planets
Movement of moon
Describe sun/earth/moon
Explain day night and seasons

Y3 Light
Need light to see
Light is reflected
Dangers of sun (eye protection)
Shadow formation
Changing shadow size

Y4 Sound
Making sounds (vibrations)
Sounds travelling in medium
Patterns in pitch
Patterns in volume
Sounds get fainter/distance

Y6 Light
Light travels in straight lines
How we see
Reflecting light
Explain shadows

Y3 Forces and magnets
Moving objects on surfaces
Contact / distance forces
Magnets attract/repel poles
Grouping materials mag/not mag

Y5 Forces
Gravity / falling
Air/water resistance & friction
Levers, Pulleys, Gears (force multipliers)

Y4 Electricity
Appliances
Simple circuits and components
Will the bulb light
Switches
Conductors/insulators

Y6 Electricity
Brightness of bulbs vs cells/voltage
Explain brightness, loudness of buzzers
Use circuit symbols
Application of knowledge - traffic lights/
burglar alarm

Living Things
Materials and Properties
Physical Processes

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