Year 4 autumn 1

Ecology

I know how to compare the teeth of carnivores and herbivores.

I know how to identify producers, predators and prey.

Ecology

I know how to interpret a variety of food chains.

Good Health

I know how to describe the simple functions of the basic parts digestive system in humans.

Topic: Animals Including Humans

Composite Question: How do Humans and animals process their food?

Good Health

I know how to identify; mouth, oesophagus, stomach, small intestine, large intestine and I know their functions in digestion.

Good Health

I know the different types of teeth in humans and their simple functions.

I know what damages teeth.

Pioneers / Capital

Scatology



Vocabulary

Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, incisor, canine, molar, premolar, herbivore, carnivore, omnivore, producer, predator, prey

Science Golden Threads covered in KS1 and KS2:

Climate Processes and change

Ecology Good Health

Sustainability Pioneers/Capital

Year 4 autumn 2

Processes and Change

I know how to observe that some materials change state when they are heated or cooled.

Processes and Change

I know how to compare and group materials together, according to whether they are solids, liquids or gases.

Ecology

I know the water cycle.

I know how to identify what part evaporation and condensation play in the water cycle.

Topic: States of Matter

How do materials change their state?

Pioneers

Daniel Fahrenheit

Inventor of the thermometer.

Processes and Change

I know how to measure the temperature at which a change of state happens (degrees Celsius).

Processes and Change

I know how to associate the rate of evaporation with temperature.

Science Golden Threads covered in KS1 and KS2:

Vocabulary

evaporation,

condensation.

Solid, liquid, gas,

heating, cooling, state change, melting,

freezing, melting point,

temperature, water cycle

boiling, boiling point,

Climate Processes and change

Good Health Ecology

Sustainability Pioneers/Capital



Year 4 spring 1

Processes and Change

I know that vibrations from sounds travel through a medium to the ear.

I know how to identify how sounds are made, associating some of them with something vibrating.

Processes and Change

I know that sounds get fainter as the distance from the sound source increases. **Processes and Change**

know how to find patterns between the pitch of a sound and features of the object that produced it.

Topic: Sound

Composite Question: How do we hear sound?

Processes and Change

I know how to find patterns between the volume of a sound and the strength of the vibrations that produced it.

Good Health:

I know that vibrations from sounds travel through a medium to the ear.

Sustainability:

I know how to make a musical instrument that varies in pitch and volume. Vocabulary

Sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, quiet, loud, insulation

Science Golden Threads covered in KS1 and KS2:

Climate Processes and change

Ecology Good Health

Sustainability Pioneers/Capital

Year 4 spring 2

Ecology
I know how to classify vertebrates – fish, amphibians, reptiles, birds, mammals.

I know how to classify invertebrates – slugs, snails, spiders and insects.

Ecology

I know how to explore and use classification keys to help group, identify and name a variety of living things in my local environment. Sustainability

I know that environments can change and that this can sometimes pose dangers to living things.

Processes and Change

I know that living things can be grouped in a variety of ways.

Topic: Living Things and their Habitats

Composite Question: How do we group living things?

Pioneers

Steve Irwin – conservationist, Environmentalist.



Science Golden Threads covered in KS1 and KS2:

Climate Processes and change

Ecology Good Health

Sustainability Pioneers/Capital

Ecology

I know how to observe animals in their habitats

I know how to make a key to classify living things in my local environment. Vocabulary

Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate

Year 4 summer 1

Processes and Change

I know how to identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.

I know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.

Processes and Change

I know some common conductors and insulators and can associate metals with being good conductors.

Processes and Change

I know how to identify common appliances that run on electricity.

I know how to construct a simple series electrical circuit, identifying and naming its basic parts – cells, wires, bulbs, switches and buzzers.

Sustainability:

I know how electricity helps with sustainability.

Topic: Electricity

Composite Question: How do circuits help in everyday life?

Pioneers – Alessandro Volta inventor of the battery.



Vocabulary

Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol

Good Health

I know how electricity used to ensure that we are healthy.

Science Golden Threads covered in KS1 and KS2:

Climate Processes and change

Ecology Good Health

Sustainability Pioneers/Capital

