CSPA Science Curriculum Journey

Year 3

The Human Body
Body systems (nervous, skeletal, muscular, digestive) that work together to keep us alive, moving & healthy

Forces
Pushes, pulls & movement
Gravity, friction & resistance
Investigating forces & simple machines

Rocks
Classifying 3 types; sedimentary, igneous & metamorphic.
Famous geologists, how fossils are formed & soil study.

Light and Shadows
Light is an energy, natural vs artificial sources..
Transparent, translucent, opaque materials.

Plants
Flowering plants and their features.
Botany & famous botanists.
Diversity of life and pollination.

Year 4

Sound
How sounds are made and how they travel through different matter (solid, liquid, gas).
Pitch vs volume
How the ear works to process sounds.

States of Matter
Three main states - solids, liquids & gases.
Water Cycle.

Electricity
Using electricity safely
Electrical circuits
Famous inventors - Edison & Latimer
Conductors & insulators

Living Things - Classification
Living things can be grouped in a variety of ways
Vertebrates & invertebrates
Using classification keys

The Human Body
Cells & digestion
Teeth
Healthy Diets

Year 5

Forces and Magnets
Gravity & friction
Magnetism: attracting & repelling, magnetic materials, testing strengths

Astronomy
The universe, galaxies & the Big Bang
Gravity, the solar system & planets
The Moon, lunar phases and space exploration

Materials
Properties and grouping materials
Dissolving, solutions & solubility
Separating mixtures and reversible changes

Living things and their habitats
Life cycle of plants & animals
Metamorphosis, growth and reproduction
Ecosystems, pollination
Naturalists Jane Goodall & David Attenborough

The Human Body
Human growth: gestation, birth & infancy
Puberty & hormones - physical and emotional changes
Life cycles, ageing and healthy development

Year 6

Living things - classification
Five kingdoms & taxonomy of living organisms
Plant & animal cells and their structures
Vertebrates, invertebrates
Classification systems

Evolution
Fossils and evidence for change over time
Inheritance, variation & adaptation
Natural selection & influential scientists (Darwin & Wallace)

The Human Body
The Circulatory System
Heart, blood & oxygen transport
Blood vessels and blood components
Heart rate, exercise & health

Light
How we see
Light sources
Reflections, shadows & prisms
The human eye

Electricity
Electric current and circuits
Voltage, switches & energy transfer
Designing and building electrical systems