Molecules

Muscles and Bones

- Breathing and Blood
- The Skeleton
- Muscles and moving

Drugs Atoms, Elements and

- The air we breathe
- Earth's resources
- Metals and Non-Metals
- Making compounds
- Chemical Reactions

Forces

- Springs
- Friction Pressure
- Balanced and unbalanced

Acids & Alkalis

- Hazards
- Indicators
- Acidity and Alkalinity
- Neutralisation in daily life

Cells, Tissues, Organs and Systems

- Life Processes
- Organs
- Tissues Cells
- Organ systems





- - - Using energy resources

Current Electricity

Series and Parallel

Circuits

Voltage &

Resistance

Using electricity

Mixtures & Separation

Chromatography

Reproduction in

organs

Becoming

pregnant

Gestation

Growing up

Reproductive

Solutions

Evaporation

Distillation

Sexual

Animals

Ecosystems

Variation

chains

Adaptations Effects of the

environment

Transfers in Food

Particle Model

Solids, Liquids & Gases

Diffusion & Air pressure

Brownian Motion

Energy

Fuels

Food, Transfers and Stores

Fluids

- Particle model
- Changing state
- Pressure
- Floating, Sinking & Drag

Combustion

- **Burning fuels**
- Oxidation
- Fire safety
- Air Pollution
- Global Warming



Periodic Table

- Dalton's Atomic Model
- Chemical **Properties**
- Mendeleev's Table
- Physical & Chemical trends

Food and Nutrition

- Use of nutrients
- Balanced diet
- Digestion and Absorption



Sound

using sound

Comparing waves

Metals & Uses

- Metal Properties
- Corrosion
- Metals: Water & Acids
- Pure Metals & **\ | /** Allovs

Light

- On the move
- Reflection & Refraction
- Cameras & Eyes
- Colour

Energy Transfer

- Temperature Changes
- Controlling transfers
- Power & Efficiency

Unicellular **Organisms**

- Unicellular vs Multicellular
- Fungi & Bacteria
- Protoctists
- Decomposers

Plant

Reproduction

- biodiversity
- Pollination

Forces and Motion

- Forces and Movements
- **Energy for Movement**
- Speed
- **Turning Forces**
- More Machines

Functional Skills Projects

- Biology
- Chemistry
- **Physics**



Making Materials

Ceramics

Polymers

Composite

Materials

Materials

Problems with

Science Learning Pathway

Key Stage 4 Science





- **Growing Crops**
- Farming

Breathing & Respiration

Getting Oxygen

Gas Exchange System

Aerobic & Anaerobic Respiration

Genetics & Evolution

Genes & Extinction

Natural Selection

Variation

DNA

Force Fields &

Electromagnetics

Electricity

Resistance

Reactivity

Types of

Static & Current

Electromagnets

explosions

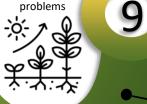
Displacement

Reactivity



Extracting Metals

- **Plant Growth** Reaction & Adaptations
- problems



Earth and Space

- Gathering Evidence
- Seasons
- Magnetic Earth
- **Gravity in Space**
- Beyond the Solar System



LEARNING FOR LIFE

Rocks

- Igneous & Metamorphic
- Weathering & Erosion
- Sedimentary Rocks
- Materials in the Earth

Classification & Moving, detection and

Animal sounds

· Fertilisation & Dispersal







