

Year 7 SCIENCE Learning Journey

Term 1

A1 Investigative Skills

Lab safety
Drawing equipment
Measuring equipment
The Bunsen Burner
Terminology & Collecting Data
Graphs & Lines of best fit
A1 Practical Skills Assessment
Bouncy ball Experiment
A1 End of Unit Test

C1 Particles & Solutions

States of matter
Particle theory
Changes of state
Diffusion & linked to cells
Gas/Air pressure
Solute, solvent, solution & conservation of mass
C1 Practical skills assessment
Dissolving practical
C1 End of Unit Test

P1 Forces

Naming different forces
Balanced and unbalanced forces
Density
Floating & sinking
Mass & Weight
Stretching & Hooke's law
Friction
Pressure
Speed
P1 Practical Skills Assessment
Speed calculations and stopping distances
Distance- time graphs
SI Units
P1 Forces End of Unit Test

Term 2

B1 Cells

7 life processes & basics of microscopes
Microscopes & making slides
Animal cells
Plant cells
B1 Practical Skills Assessment
Specialised cells
Tissues, Organs & organ systems
B1 End of Unit Test

C2 Acids & Alkalis

Intro & hazard symbols
Risk assessments & red cabbage indicator
Universal indicator
pH Scale
Neutralisation
Neutralisation 2
C2 Practical Skills Assessment
C2 End of Unit Test

P2 Energy

Energy stores and transfer
Fuels
Renewable energy resources
Electricity
Energy in fuels and food
Energy in different fuels practical
Power & Energy efficiency
Paying for energy
P2 Practical Skills Assessment
P2 End of Unit Test

Term 3

B2 Ecology

Habitat & adaptations
Competition
Choice chambers
Predators and prey
B2 Practical Skills Assessment
Food Chains & Food webs
B2 End of Unit Test

C3 Chemical Reactions

Chemical and Physical Changes
Metal & Acid
Metal carbonate & Acid
Oxidation
Combustion
Combustion practical
C3 Practical Skills Assessment
C3 End of Unit Revision

B3 Reproduction

Structure of a flower and flower dissection
Pollination & seeds
Seed development & life cycle of plants
Gametes & the male & female reproductive system
Puberty and the menstrual cycle
Internal vs external fertilisation
Fertilisation, implantation & Pregnancy
Gestation & Birth
IVF
Seed dispersal practical

Each unit has...

- lots of interesting new scientific knowledge
- exciting science practicals
- opportunities to develop your scientific skills, your data analysis skills and your practical skills
- a practical skills assessment
- an end of unit test to test your knowledge