

Year 8 SCIENCE Learning Journey

Term 1

B4 Food & Digestion

Diet & food groups
Balanced diets
Food tests
Digestive system
Enzymes
Enzyme experiment
Model gut

B4 Practical Skills Assessment

The Small intestine
B4 End of Unit Test

C4 Periodic Table

Atoms and elements
Compounds & formulas
Metals and non-metals
Mixture and compounds
C4 Practical Skills Assessment
Periodic table
Separating mixtures - Filtration and evaporation
Distillation
Chromatography
C4 End of Unit Test

P3 Waves

Sounds
Sound and music
Speed of sound
The Ear
Ultrasound
Light
Travelling light
P3 Practical Skills Assessment
Law of Reflection
Uses of Reflection
P3 End of Unit Test

Term 2

P4 Heating & Cooling

Temperature vs internal thermal energy
Conductors and insulators
Conduction
Convection
P4 Practical Skills Assessment
Radiation
Change of states/cooling curves
The anomaly of water
P4 End of Unit Test

B5 Human Body

Aerobic respiration
Breathing system
Data analysis
Gas Exchange
Blood the circulatory system
Circulatory system
Investigating Exercise
Anaerobic respiration
Lung disease and smoking
B5 Practical Skills Assessment
B5 End of Unit Test

C5 Earth & Atmosphere

Structure of the earth
Porosity
Weathering
Abrasion & transportation
Formation of sedimentary rock
Igneous rocks
C5 Practical Skill Assessment
Metamorphic rocks
Rock cycle
Sustainability and recycling
Carbon cycle
Climate change
C5 End of Unit Test

Term 3

B6 Variation & Genetics

Variation
Causes of variation & inheritance
B6 Practical Skills Assessment
DNA
Natural Selection
Extinction
B6 End of Unit Test

P5 Space

Earth and the moon
The Seasons
Mass & Weight
The Solar system
P5 Practical Skills Assessment
Galaxies
P5 End of Unit Test

B7 Microbes

Types of pathogen
How disease spreads
Human defences
White blood cells
Vaccination
Antibiotics

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