

WHSB SCIENCE LOWER SCHOOL CURRICULUM MAP

KEY STAGE TWO PRIOR LEARNING INFORMS

YEAR 7

1

CONTENT
Chemistry - Mixing, Dissolving & Separating (I) & (II)
Biology - Cells- the building block of life (I) & (II)
Physics - Forces and their effects (I)

SKILLS
Practical skills & Working scientifically
Plotting graphs
Analysing data and drawing conclusions
Understanding composition of living organisms and materials
Understanding forces



Interim and End of Topic tests
Skills homework, Lab Reports
Comprehension task

2

CONTENT
Physics - Forces and their effects (II)
Biology - Eating, Drinking and Breathing (I)
Chemistry - Elements, compounds & reactions (I)
Physics - Energy, transfers and sound (I)

SKILLS
Practical skills & Working scientifically
Plotting graphs
Analysing data and drawing conclusions
Understanding energy transfer
Understanding elements, compounds and mixtures



Interim and End of Topic tests
Lab Reports, Research Tasks

3

CONTENT
Biology - Eating, Drinking and Breathing (II)
Chemistry - Elements, compounds & reactions (II)
Physics - Energy, transfers and sound (II)

SKILLS
Understanding how enzymes catalyse reactions
Understanding the respiratory system
Understanding chemical reactions
Writing formulae
Understanding sound



Interim and End of Topic tests
Comprehension task and End of Year Examination

YEAR 8

1

CONTENT
Mathematics in Science
Biology - Getting the Energy your Body Needs (I) and (II)
Chemistry - Atoms, Ions and Bonding (I)
Physics - Gravity and Pressure

SKILLS
Mathematical skills : significant figures, percentages, graphs, algebra, area and volume
Practical skills & Working scientifically
Understanding the skeleton and muscles
Understanding physical changes in matter
Understanding gravity and pressure



Interim and End of Topic tests
Maths in Science, Comprehension task, Essay task

2

CONTENT
Chemistry - Atoms, Ions and Bonding (II)
Physics - Static Electricity
Biology - Looking at Plants and Ecosystems (I)
Chemistry - Explaining Chemical Changes (I)

SKILLS
Calculating relative atomic mass
Writing formulae
Drawing dot and cross diagrams
Understanding photosynthesis
Practical skills & Working scientifically



Interim and End of Topic tests
Lab Reports

3

CONTENT
Physics - Circuits (I) & (II)
Biology - Looking at Plants and Ecosystems (II)
Chemistry - Explaining Chemical Changes (II)
Physics - Energy transfer in domestic contexts

SKILLS
Practical skills & Working scientifically
Analysing data and drawing conclusions
Understanding circuits
Drawing food webs
Understanding energy transfers and its relation to fuel bills



Interim and End of Topic tests
End of Year Examination

YEAR 9

1

CONTENT
Biology - Cell Biology, Microscopy and Transport in Cells
Chemistry - The Earth's Atmosphere & The Earth's Resources
Physics: - Waves & Space

SKILLS
Practical skills & Working scientifically
Analysing data and drawing conclusions
Working scientifically and understanding scientific theory



End of Topic Tests, Homework booklets

2

CONTENT
Biology - Health & Infection and Response
Chemistry - Atomic Structure and The Periodic Table
Physics: - Space, Motion & Forces and Motion

SKILLS
Mathematical skills
Applying and rearranging algebraic equations
Working scientifically and understanding scientific theory



End of Topic Tests, Homework booklets

3

CONTENT
Biology - DNA & Plant Tissues and Organs
Chemistry: - Bonding and Structure
Physics - Forces and Motion & Isaac
Physics Skills

SKILLS
Mathematical skills
Applying and rearranging algebraic equations
Plotting and analyzing graphs
Understanding scientific theory and models



End of Topic Tests, Homework booklets, End of Year Examination