



Walton Hall Academy Long Term Planning

Key Stage 3 Science

2016-17



Year 7	
Autumn: Term 1	Autumn: Term 2
Farm Based classification and variation AC Energy and Electrical Circuits RS	Farm Based classification and variation AC Forces RS
Spring: Term 1	Spring: Term 2
Animal and Plant Cells AC Simple Chemical Reactions RS	Farm Based Reproduction AC Solutions Acids and Alkalis RS
Summer: Term 1	Summer: Term 2
Sense Organs AC Sound and Light RS	Forest School Based Ecological relationships AC The Solar System RS

Year 8

Autumn: Term 1

Food and Digestion AC

Atoms and Elements RS

Autumn: Term 2

Food and Digestion AC

Compounds and Mixtures R S

Spring: Term 1

Respiration AC

Heating and cooling RS

Spring: Term 2

Blood System AC

Magnets / Electromagnets RS

Summer: Term 1

Keeping Healthy AC

Rock Cycle RS

Summer: Term 2

Microbes and Disease AC

Rocks an Weathering RS

Year 9

Autumn: Term 1

Inheritance and Selection AC

Energy and Electricity RS

Spring: Term 1

Fit For life AC

Reactions of Metals RS

Summer: Term 1

Plants and Photosynthesis AC

Using Chemistry RS

Autumn: Term 2

Farming – Selective Breeding AC

Gravity and Space RS

Spring: Term 2

Skeletal System AC

Patterns of Reactivity RS

Summer: Term 2

Forensic Science AC

Speeding up and Pressure RS

BW – KS3 Additional Needs 1

Autumn: Term 1		Autumn: Term 2	
Keep Healthy 3.2b		Forces & Motion 3.4a	
Spring: Term 1		Spring: Term 2	
Grouping and classifying Materials and their Properties. 3.3a		Changing Materials and their Properties 3.3b	
Summer: Term 1		Summer: Term 2	
The Earth and Beyond 3.4	Green Plants 3.2a	The Earth and Beyond 3.4b	Green Plants 3.2a



Walton Hall Academy Long Term Planning

Key Stage 4 Science

2016-17



RS – Yellow Group (Entry Level Science WJEC)

Autumn

Using Electricity Sc 4 Unit H

- Using completed circuits
- Voltage, current and resistance
- The effects of an electrical current
- Heating by an electrical current
- Measuring and paying for electricity

End of Unit Test and Oral Questions (under controlled conditions)
Practical Tasks/activities

SPACE SCIENCE Sc 4 Unit I

- A tour of the Universe
- The Earth
- Gravity
- Spacecraft/Satellites
- The moon
- The planets

End of Unit Test and Oral Questions (under controlled conditions)
Practical Tasks/activities

Spring

Making New Materials Sc 3 Unit G

- Chemical reactions
- Using chemical reactions

End of Unit Test and Oral Questions (under controlled conditions)
Practical Tasks/activities.

Revision for March Examination all units covered (Units A, B, F, G, H and I) by Yr11 students.

Using graphs, Using apparatus. Using observations, interpreting and applying information and investigating

Complete Units/End of Unit Tests/Orals Yr11 (under controlled conditions) Practical Tasks/activities

- Sc 2 Unit B Body Maintenance
- Sc 3 Unit F Materials and their Uses

Revision Mock examination Units covered (Units G, H and I) by Yr10 students

Summer

Materials and Their Uses Sc3 Unit F (Yr 10)

- Different materials
- What materials are like
- Solids, Liquids and Gases
- Separating mixtures

End of Unit Test and Oral Questions (under controlled conditions)

Practical Tasks/activities Marks sent to WJEC for grading and

Certification (Either 1,2 or top grade 3)

Mini Science projects/investigations into Walton Hall and its many plants, trees, animals and insects such as;

- How old/tall/types of trees are there at Walton Hall
- Insect variation and types (grid searches/insect traps)
- Building insect and animal shelters and homes

RS – Level 1 Science (BTEC Award Principals of Applied Science)

Autumn

UNIT 5: Physics and our Universe (K/505/0359)

40 credits; teaching time 15 WEEKS.

(Assessment Criteria 1.1, 2.1, 2.2, 3.1, 3.2, 4.1, 4.2)

Spring: Term 1

UNIT 5: Physics and our Universe (K/505/0359)

40 credits; teaching time 15 WEEKS.

(Assessment Criteria 1.1, 2.1, 2.2, 3.1, 3.2, 4.1, 4.2)

Spring: Term 2

UNIT 3: Skills and Techniques for Chemistry Investigations. (F/600/5941)

40 credits; teaching time 15 WEEKS.

(Assessment Criteria 1.1, 2.1, 2.2, 3.1, 3.2, 4.1, 4.2)

Summer Term

UNIT 3: Skills and Techniques for Chemistry Investigations. (F/600/5941)

40 credits; teaching time 15 WEEKS

(Assessment Criteria 1.1, 2.1, 2.2, 3.1, 3.2, 4.1, 4.2)

