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**GCSE Gateway Science Suite - Chemistry
A (9-1) - J248**

Specification Summary

Topic C1: *Particles*

C1.1 The particle model

C1.2 Atomic structure

Topic C2: *Elements, compounds and mixtures*

C2.1 Purity and separating mixtures

C2.2 Bonding

C2.3 Properties of materials

Topic C3: *Chemical reactions*

C3.1 Introducing chemical reactions

C3.2 Energetics

C3.3 Types of chemical reactions

C3.4 Electrolysis

Topic C4: *Predicting and identifying reactions and products*

C4.1 Predicting chemical reactions

C4.2 Identifying the products of chemical reactions

Topic C5: *Monitoring and controlling chemical reactions*

C5.1 Monitoring chemical reactions

C5.2 Controlling reactions

C5.3 Equilibria

Topic C6: *Global challenges*

C6.1 Improving processes and products C6.2 Organic chemistry C6.3
Interpreting and interacting with earth systems

Topic 7

A practical-based topic which provides learners with the necessary skills to undertake the 15% practical content in the examinations.



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**GCSE Gateway Science Suite – Physics A
(9-1) - J248**

Specification Summary

Topic P1: Matter

P1.1 The particle model

P1.2 Changes of state

P1.3 Pressure

Topic P2: Forces

P2.1 Motion

P2.2 Newton's laws

P2.3 Forces in action

Topic P3: Electricity

P3.1 Static and charge

P3.2 Simple circuits

Topic P4: Magnetism and magnetic fields

P4.1 Magnets and magnetic fields

P4.2 Uses of magnetism

Topic P5: Waves in matter

P5.1 Wave behaviour

P5.2 The electromagnetic spectrum

P5.3 Wave interaction

Topic P6: Radioactivity

P6.1 Radioactive emissions

P6.2 Uses and hazards

Topic P7: Energy

P7.1 Work done

P7.2 Power and efficiency

Topic P8: Global challenges

P8.1 Physics on the move

P8.2 Powering Earth

P8.3 Beyond Earth



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**GCSE Gateway Science Suite - Biology A
(9-1) - J248**

Specification Summary

Topic B1: Cell level systems

B1.1 Cell structures

B1.2 What happens in cells (and what do cells need)?

B1.3 Respiration

B1.4 Photosynthesis

Topic B2: Scaling up

B2.1 Supplying the cell

B2.2 The challenges of size

Topic B3: Organism level systems

B3.1 Coordination and control – the nervous system

B3.2 Coordination and control – the endocrine system

B3.3 Maintaining internal environments

Topic B4: Community level systems

B4.1 Ecosystems

Topic B5: Genes, inheritance and selection

B5.1 Inheritance

B5.2 Natural selection and evolution

Topic B6: *Global challenges*

B6.1 Monitoring and maintaining the environment

B6.2 Feeding the human race

B6.3 Monitoring and maintaining health

Topic 7

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