

KS4 Science

Pupils will follow the OCR 9.1 Science Course. One set of pupils will follow the OCR 9-1 Triple Science course, which extends the Core Science topics (further details available on request or on the OCR website).

Details of the OCR 9.1 Science Course from September 2016 are outlined below for both Foundation and Higher tiers. Pupils receive tuition in Biology, Chemistry and Physics, plus work on practical and experimental skills.

Content Overview	Assessment Overview	
Foundation Tier, grades 5-5 to 1-1		
Content is split into into 18 teaching topics B1-B6, C1-C6 and P1-P6 and a practical activity skills topic CS7: <ul style="list-style-type: none"> • Topic B1: Cell level systems • Topic B2: Scaling up • Topic B3: Organism level systems • Topic CS7: Practical skills (PAGs B1-B5) 	Paper 1 (Biology) J250/01 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic B4: Community level systems • Topic B5: Interaction between systems • Topic B6: Global challenges • Topic CS7: Practical skills (PAGs B1-B5) With assumed knowledge of B1–B3	Paper 2 (Biology) J250/02 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic C1: Particles • Topic C2: Elements, compounds and mixtures • Topic C3: Chemical reactions • Topic CS7: Practical skills (PAGs C1-C5) 	Paper 3 (Chemistry) J250/03 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic C4: Predicting and identifying reactions and products • Topic C5: Monitoring and controlling chemical reactions • Topic C6: Global challenges • Topic CS7: Practical skills (PAGs C1-C5) With assumed knowledge of C1–C3	Paper 4 (Chemistry) J250/04 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE

<ul style="list-style-type: none"> • Topic P1: Matter • Topic P2: Forces • Topic P3: Electricity and magnetism • Topic CS7: Practical skills (PAGs P1-P5) 	Paper 5 (Physics) J250/05 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic P4: Waves and radioactivity • Topic P5: Energy • Topic P6: Global challenges • Topic CS7: Practical skills (PAGs P1-P6) 	Paper 6 (Physics) J250/06 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE

With assumed knowledge of P1–P3.

*J250/02, J250/04 and J250/06 include synoptic assessment.

Content Overview	Assessment Overview	
Higher Tier, grades 9-9 to 4-4		
Content is split into 19 topics: <ul style="list-style-type: none"> • Topic B1: Cell level systems • Topic B2: Scaling up • Topic B3: Organism level systems • Topic CS7: Practical skills (PAGs B1-B5) 	Paper 7 (Biology) J250/07 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic B4: Community level systems • Topic B5: Interaction between systems • Topic B6: Global challenges • Topic CS7: Practical skills (PAGs B1-B5) 	Paper 8 (Biology) J250/08 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
With assumed knowledge of B1–B3 <ul style="list-style-type: none"> • Topic C1: Particles • Topic C2: Elements, compounds and mixtures • Topic C3: Chemical reactions • Topic CS7: Practical skills (PAGs C1-C5) 	Paper 9 (Chemistry) J250/09 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
<ul style="list-style-type: none"> • Topic C4: Predicting and identifying reactions and products • Topic C5: Monitoring and controlling chemical reactions • Topic C6: Global challenges • Topic CS7: Practical skills (PAGs C1-C5) 	Paper 10 (Chemistry) J250/10 1 hour 10 minutes 60 mark written paper	16.7% of total GCSE
With assumed knowledge of C1–C3		

<ul style="list-style-type: none"> • Topic P1: Matter • Topic P2: Forces • Topic P3: Electricity and magnetism • Topic CS7: Practical skill (PAGs P1-P6) 	<p>Paper 11 (Physics)</p> <p>J250/11</p> <p>1 hour 10 minutes 60 mark written paper</p>	<p>16.7% of total GCSE</p>
<ul style="list-style-type: none"> • Topic P4: Waves and radioactivity • Topic P5: Energy • Topic P6: Global challenges • Topic CS7: Practical skills (PAGs P1-P6) <p>With assumed knowledge of P1–P3</p>	<p>Paper 12 (Physics)</p> <p>J250/12</p> <p>1 hour 10 minutes 60 mark written paper</p>	<p>16.7% of total GCSE</p>

J250/08, J250/10 and J250/12 Include synoptic assessment.