CATHEDRAL SCHOOLS TRUST

St Katherine's School

Science
Curriculum Guide

Year 7

All assessments are in **BOLD**.

Term	7Y	7S1	7S2	7T1	7T2	7P
1	**KS2 transition tests** • Becoming a Scientist • Space • Cells	**KS2 transition tests** • Becoming a Scientist • Space • Cells	**KS2 transition tests** • Becoming a Scientist Space Cells	**KS2 transition tests** • Becoming a Scientist • Space • Particles	**KS2 transition tests** • Becoming a Scientist • Space • Cells	**KS2 transition tests** • Becoming a Scientist • Space • Particles
2	• Particles • Space • Cells **Winter test**	• Particles • Space • Cells **Winter test**	• Particles • Space • Cells **Winter test**	• Particles • Space • Cells **Winter test**	• Particles • Space • Cells **Winter test**	• Particles • Space • Cells **Winter test**
3	• States of matter • Body systems • Forces	• States of matter • Body systems • Forces	• States of matter • Body systems • Forces	• States of matter • Body systems • Forces	• States of matter • Body systems • Forces	• States of matter • Body systems • Forces
4	• States of matter • Sound • Reactions • Body systems • Reproduction **Spring test**	• Forces • Reactions • Body systems • Reproduction **Spring test**	• Forces • Reactions • Body systems • Reproduction **Spring test**	• States of matter • Sound • Reactions • Body systems • Reproduction **Spring test**	• States of matter • Sound • Reactions • Body systems • Reproduction **Spring test**	• Forces • Reactions • Body systems • Reproduction **Spring test**
5	• Reactions • Acids & Alkalis • Reproduction • Light	• Sound • Acids & Alkalis • Reproduction • Light	• Sound • Acids & Alkalis • Reproduction • Light	• Reactions • Acids & Alkalis • Reproduction • Light	• Reactions • Acids & Alkalis • Reproduction • Light	• Sound • Acids & Alkalis • Reproduction • Light
6	• Acids and alkalis • Light • Revision • **End of Year 7 Test**					

CASE = Cognitive Acceleration through Science Education - throughout.

Assessment

Assessment will take place formally 4 times throughout the year. The first assessment in September will be a baseline KS2 assessment. Following this each student will be assessed in exam conditions with their teacher.

Subject		Year 7 Science	
Assessment type	**Frequency**	**Control**	**Weighting**
Winter assessment	Annually	Medium	20%
Spring assessment	Annually	Medium	30%
Summer assessment	Annually	Medium	50%

How can I support my child's learning?

You can help your child prepare for their science assessments using the links and page numbers here.

Year 8

All assessments are shown in **BOLD**.

Term	8L1	8L2	8L3	8R1	8R2	8R3
1	• Digestion • Space • Periodic table	• Digestion • Space • Periodic table	• Digestion • Space • Periodic table	• Digestion • Space • Periodic table	• Digestion • Periodic table • CASE	• Digestion • Periodic table • CASE
2	• CASE • Health • Energy • Seperation **Autumn test**	CASE Health Energy Seperation **Autumn test**	CASE Energy Seperation **Autumn test**	CASE Health Energy Seperation **Autumn test**	• Health • Space • Energy **Autumn test**	• Health • Space • Energy **Autumn test**
3	• Health • Respiration and photosynthesis • Energy • Seperation • CASE	• Health • Respiration and photosynthesis • Energy • Seperation • CASE	• Health • Energy • CASE	• Health • Respiration and photosynthesis • Energy • Seperation • CASE	• Seperation • Energy • CASE	• Seperation • Energy • CASE
4	• Respiration and photosynthesis • Electricity and magnetism • Ecosystems • Metals and acids **Spring test**	Respiration and photosynthesis Electricity and magnetism Ecosystems Metals and acids **Spring test**	• Respiration and photosynthesis • Electricity and magnetism • Ecosystems **Spring test**	Respiration and photosynthesis Electricity and magnetism Ecosystems Metals and acids **Spring test**	• Respiration and photosynthesis • Electricity and magnetism • Ecosystems **Spring test**	• Respiration and photosynthesis • Electricity and magnetism • Ecosystems **Spring test**
5	• Electricity and magnetism • Ecosystems • Metals and acids • CASE	• Electricity and magnetism • Ecosystems • Metals and acids • CASE	• Electricity and magnetism • Electricity and magnetism • CASE	• Electricity and magnetism • Ecosystems • Metals and acids • CASE	• Electricity and magnetism • Ecosystems • Metals and acids • CASE	• Electricity and magnetism • Ecosystems • Metals and acids • CASE
6	• CASE	• CASE	• CASE	• CASE	• Metals and acids • CASE	• Metals and acids • CASE
6	• Revision • **End of year 8 exam** • CASE (Cognitive Acceleration through Science Education) • Investigation					

How can I support my child's learning?
You can help your child prepare for their science assessments using the links and page numbers here.

Assessment

Assessment will take place formally 3 times throughout the year. Each student will be assessed in exam conditions with their teacher.

Subject		**Year 8 Science**	
Assessment type	**Frequency**	**Control**	**Weighting**
Winter assessment	Annually	Medium	20%
Spring assessment	Annually	Medium	30%
Summer assessment	Annually	Medium	50%

Year 9

Term	9-1	9-2	9-3	9-4	9-5	9-6	9-7
1	Adaptation and inheritance Motion and pressure The Earth CASE	Adaptation and inheritance Motion and pressure The Earth CASE	Adaptation and inheritance Motion and pressure The Earth CASE	Adaptation and inheritance Motion and pressure The Earth	Adaptation and inheritance Motion and pressure The Earth CASE	Adaptation and inheritance Motion and pressure The Earth CASE	Adaptation and inheritance Motion and pressure The Earth CASE
2	Adaptation and inheritance Motion and pressure The Earth Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure The Earth Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure The Earth Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure The Earth CASE Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure The Earth Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure The Earth Revision **Mock end of KS3**	Adaptation and inheritance Motion and pressure Revision **Mock end of KS3**
3	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere Energy Adaptations, interdependent & competition	Revision **End of KS3 exam** GCSE: The Earth's atmosphere The Earth's resources Adaptations, interdependent & competition
4	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy Energy resources The Earth's atmosphere The Earth's resources	Adaptations, interdependent & competition Ecosystems Energy The Earth's atmosphere The Earth's resources **Chemistry test**

5	Ecosystems Energy resources The Earth's resources	Ecosystems Energy resources The Earth's resources	Ecosystems Energy resources The Earth's resources	Ecosystems Energy resources The Earth's resources	Ecosystems Energy resources The Earth's resources	Ecosystems Energy resources The Earth's resources	Ecosystems Energy Energy resources
6	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test** **Physics test**	Biodiversity & ecosystems Folly farm trip Revision **Biology test** **Chemistry test**

You can support your child in preparing for the end of KS3 science exam using the links here.
You can support your child in preparing for their GCSE tests using the links here.

Assessment

Assessment will take place formally 5 times throughout the year. Each student will be assessed in exam conditions with their teacher.

Subject		**Year 9 Science**	
Assessment type	**Frequency**	**Control**	**Weighting**
Term 1 assessment	Annually	Medium	10%
End of KS3 exam	Annually	Medium	70%
GCSE biology, chemistry and physics tests	Annually	Medium	20%

Year 10

Triple Science AQA

Term	Biology	Chemistry	Physics
1	• B1 Cells • B2 Cell division • Test	• C1 Atomic structure • C2 The periodic table • Test	• P1 Conservation and dissipation of energy • P2 Energy transfer by heating • Test • P6 Molecules and matter
2	• B3 Organisation and the digestive system • B4 Organising animals and plants • Test	• C3 Structure and bonding • C4 Chemical calculations • Test	• P7 Radioactivity • Test • P4 Electric circuits
3	• B5 Communicable disease • B6 Preventing and treating disease	• C5 Chemical Change • C6 Electrolysis • Test	• P5 Electricity in the home • Test
4	• B7 Non communicable disease • Test • B8 Photosynthesis • B9 Respiration • Test	• C7 Energy changes • C8 Rates and equilibrium • Test	• P8 Forces in balance • P9 Motion
5	• B1O The human nervous system • B11 Hormonal communication • B12 Homeostasis	• C9 Crude oil and fuels • C10 Organic reactions	• P10 Force and motion • P11 Force and pressure • Test
6	• Revision • Mock Exams • B12 Homeostasis • Test	• Revision • Mock Exams • C11 Polymers • C12 Chemical analysis • Test	• Revision • Mock Exams • P11 Force and pressure

You can find links and suggestions to support your child with their triple science assessments here. Students will be set 45 minutes of biology, chemistry and physics homework every week.

Assessment

Assessment will take place formally fifteen times throughout the year via end of topic tests. There will also be a mock examination in each subject.

Subject		Year 10 Biology	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Five times	Medium	30%
Mock examination	Once	High	70%

Subject		Year 10 Chemistry	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Five times	Medium	30%
Mock examination	Once	High	70%

Subject		Year 10 Physics	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Five times	Medium	30%
Mock examination	Once	High	70%

Combined Science - Trilogy AQA

Term	Biology	Chemistry	Physics
1	• B1 Cells • B2 Cell division • Tests	• C1 Atomic structure • C2 The periodic table • Test	• P1 Conservation and dissipation of energy • P2 Energy transfer by heating
2	• B3 Organisation and the digestive system • B4 Organising animals and plants • Test	• C3 Structure and bonding • C4 Chemical calculations • Test	• Test • P6 Molecules and matter • P7 Radioactivity • Test
3	• B5 Communicable diseases	• C5 Chemical change	• P4 Electrical circuits • P5 Electricity in the home • Test
4	• B6 Preventing and treating disease • B7 Non communicable disease • Test	• C6 Electrolysis • C7 Energy changes • Test	• P8 Forces in balance
5	• B8 Photosynthesis • B9 Respiration • Test • B10 The human nervous system	• C8 Rates and equilibrium	• P9 Motion • P10 Forces and motion • Test
6	• Revision • Mock Exams	• Test • Revision • Mock Exams • Test	• Revision • Mock exams • P10 Forces and motion

You can find links and suggestions to support your child with their combined science assessments here. Students will be set 30 minutes of biology, chemistry and physics homework every week.

Assessment

Assessment will take place formally fifteen times throughout the year via end of topic tests. There will also be three mock examinations.

Subject		Year 10 Combined Science	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Nine times spread throughout the year	Medium	30%
Mock examinations	Three times in the summer	High	70%

Year 11

Triple Science AQA

Term	Biology	Chemistry	Physics
1	• B8 Photosynthesis • B9 Respiration • Test • B10 Human nervous system	• C7 Energy changes • C8 Rates and equilibrium • Test	• P8 Forces in balance • P9 Motion
2	• B11 Hormonal coordination • B12 Homeostasis • Mock exams	• C9 Crude oil and fuels • C10 Organic reactions • C11 Polymers • Test • Mock exams	• P10 Forces and motion • P11 Forces and pressure • Test • Mock exams
3	• Test • B13 Reproduction • B14 Variation and evolution	• C12 Chemical analysis • C15 Using our resources • Test	• P12 Wave properties • P13 Electromagnetic waves • Test • P14 Light
4	• B15 Genetics and evolution • Test • Mock exams • Revision	• Mock exams • Revision	• P15 Electromagnetism • Test • P16 Space • Revision • Mock exams
5&6	• Revision • Final Exams		

You can find links and suggestions to support your child with their triple science assessments here. Students will be set 45 minutes of biology, chemistry and physics homework every week.

Assessment

Assessment will take place formally twelve times throughout the year via end of topic tests. There will also be three mock examinations in each subject.

Subject		**Year 11 Biology**	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Four times	Medium	30%
Mock examination	Three times	High	70%

Subject		Year 11 Chemistry	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Four times	Medium	30%
Mock examination	Three times	High	70%

Subject		Year 11 Physics	
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Four times	Medium	30%
Mock examination	Three times	High	70%

Combined Science - Trilogy AQA

Term	Biology	Chemistry	Physics
1	• B8 Photosynthesis • B9 Respiration • Test • B10 The human nervous system • B11 Hormonal coordination • Test	• C5 Chemical change • C6 Electrolysis • Test • C7 Energy changes • C8 Rates and equilibrium • Test	• P7 Radioactivity • P8 Forces in balance • P9 Motion • P10 Forces and motion • Test
2	• B13 Reproduction • B14 Variation and evolution • Mock exams	• C9 Crude oil and fuels • Mock exams	• P12 Wave properties • P13 Electromagnetic waves • Mock exams
3	• B15 Genetics and evolution • Test • B16 Adaptations, inheritance and competition	• C12 Chemical analysis	• P15 Electromagnetism • Test
4	• Mock exams • B17 Organising an ecosystem • B18 Biodiversity and ecosystems • Test	• Mock exams • Revision	• Mock exams • Revision
5	• Mock exams • Revision • Final Exams		

You can find links and suggestions to support your child with their combined science assessments here.
Students will be set 30 minutes of biology, chemistry and physics homework every week.

Assessment

Assessment will take place formally fifteen times throughout the year via end of topic tests. There will also be three mock examinations.

Subject			
Assessment type	**Frequency**	**Control**	**Weighting**
End of topic tests	Fifteen times spread throughout the year	Medium	30%
Mock examinations	Nine times spread throughout the year	High	70%