

### Science at Key Stage 3

In Year 7 one teacher will teach one class all topics. In Years 8 and 9 students will be taught in a rotation (see below) enabling all students to be taught by subject specialists. Students will receive regular homework in the form of a two weekly assessment or booklet. Each homework and unit of work has an accompanying firefly page which students can access to help in completion of the homework as well as to revise in preparation for tests and examinations. All units will include at least one APP ('ladder style') assessment as well as an end of unit test. These are now assessed using the new KS3 assessment model. ('Entry- Diamond')

Year 7			
CB = Mrs C Beetham LC= Miss L Conn JOC= Mrs J O Connor DC = Mr D. Clarkeson			
Date	7 set 1 LC	7 set 2 CB	7 set 3 JOC
04/09/2017-25/10/2017	Unit 1:Cells Unit 2: Reproduction	Unit 1:Cells Unit 2: Reproduction	Unit 1:Cells Unit 2: Reproduction
October Half Term			
06/11/2017-22/12/2017	Unit 9a: Electricity Unit 9b Magnetism	Unit 9a: Electricity Unit 9b Magnetism	Unit 9a: Electricity Unit 9b Magnetism
Christmas Holiday			
08/01/2018-07/02/2018	Unit 5: Acids Unit 6: Particles	Unit 5: Acids Unit 6: Particles	Unit 5: Acids Unit 6: Particles
February Half Term			
19/02/2018-23/03/2018	Unit 3: Differences Unit 4: Classification	Unit 3: Differences Unit 4: Classification	Unit 3: Differences Unit 4: Classification
Easter Holiday			
09/04/2018-25/05/2018	Unit10: Energy Unit 11: Forces	Unit10: Energy Unit 11: Forces	Unit10: Energy Unit 11: Forces
May Half term			
04/06/2018-20/07/2018	Unit 7: Elements & Compounds Unit 8: Chemical Reactions	Unit 7: Elements & Compounds Unit 8: Chemical Reactions	Unit 7: Elements & Compounds Unit 8: Chemical Reactions
Summer Holiday			
Year 8			
CB = Mrs C Beetham LC= Miss L Conn JOC= Mrs J O Connor DC = Mr D. Clarkeson			
Date	8 set 1	8 set 2	8 set 3
04/09/2017-25/10/2017	Unit 1: Life Support (LC) Unit 2: Staying Healthy (LC)	Unit 5: The Periodic Table (CB) Unit 6: Inside Materials (CB)	Unit 9: Heating & Cooling (JOC) Unit 10: Light (JOC)
October Half Term			
06/11/2017-22/12/2017	Unit 9: Heating & Cooling (JOC) Unit 10: Light (JOC)	Unit 1: Life Support (LC) Unit 2: Staying Healthy (LC)	Unit 5: The Periodic Table (CB) Unit 6: Inside Materials (CB)
Christmas Holiday			
08/01/2018-07/02/2018	Unit 5: The Periodic Table (CB) Unit 6: Inside Materials (CB)	Unit 9: Heating & Cooling (JOC) Unit 10: Light (JOC)	Unit 1: Life Support (LC) Unit 2: Staying Healthy (LC)
February Half Term			
19/02/2018-23/03/2018	Unit 3:People and the Environment (LC) Unit 4: Shaping Life (LC)	Unit 7: Metal Reactions (CB) Unit 8: What's in Rocks? (CB)	Unit 11:Sound (JOC) Unit 12: Moving around (JOC)
Easter Holiday			
09/04/2018-25/05/2018	Unit 11:Sound (JOC) Unit 12: Moving around (JOC)	Unit 3:People and the Environment (LC) Unit 4: Shaping Life (LC)	Unit 7: Metal Reactions (CB) Unit 8: What's in Rocks? (CB)
May Half term			
04/06/2018-20/07/2018	Unit 7: Metal Reactions (CB) Unit 8: What's in Rocks? (CB)	Unit 11:Sound (JOC) Unit 12: Moving around (JOC)	Unit 3:People and the Environment (LC) Unit 4: Shaping Life (LC)
Summer Holiday			

<b>Rotations &amp; Teaching Schedule 2017-2018</b>			
<b>Year 9</b>			
<b>CB = Mrs C Beetham LC= Miss L Conn JOC= Mrs J O Connor DC = Mr D. Clarkeson</b>			
<b>Date</b>	<b>9 set 1</b>	<b>9 set 2</b>	<b>9 set 3</b>
04/09/2017-25/10/2017	Unit 7: Earth and Space (JOC) Unit 8: Energy (JOC) Unit 9: Sport (JOC)	Unit 1: Variation (LC) Unit 2: Extremes (LC) Unit 3: Interdependence(LC)	Unit 4: The Carbon Cycle (CB) Unit 5: Transport of the Future (CB) Unit 6: The Cost of your Drink (CB)
October Half Term			
06/11/2017-22/12/2017	Unit 4: The Carbon Cycle (CB) Unit 5: Transport of the Future (CB) Unit 6: The Cost of your Drink (CB)	Unit 7: Earth and Space (JOC) Unit 8: Energy (JOC) Unit 9: Sport (JOC)	Unit 1: Variation (LC) Unit 2: Extremes (LC) Unit 3: Interdependence(LC)
Christmas Holiday			
08/01/2018-07/02/2018	Unit 1: Variation (LC) Unit 2: Extremes (LC) Unit 3: Interdependence(LC)	Unit 4: The Carbon Cycle (CB) Unit 5: Transport of the Future (CB) Unit 6: The Cost of your Drink (CB)	Unit 7: Earth and Space (JOC) Unit 8: Energy (JOC) Unit 9: Sport (JOC)
February Half Term			
19/02/2018-23/03/2018	End of KS3 Assessment & Testing (JOC)	End of KS3 Assessment & Testing (LC)	End of KS3 Assessment & Testing (CB)
Easter Holiday			
09/04/2018-25/05/2018	(Triple) GCSE P1 (JOC)	Combined (set 1) GCSE B1 (LC)	Combined (sets 2 & 3) GCSE C1 (CB)
May Half term			
04/06/2018-20/07/2018	(Triple) GCSE C1 (CB)  (Triple) GCSE B1 (LC)	Combined (set 1) GCSE P1 (JOC)  Combined (set 1) GCSE C1 (CB)	Combined (set 2&3) GCSE B1 (LC)  Combined (set 2&3) GCSE P1 (JOC)
Summer Holiday			

## Science at Key Stage 4

Science at Key Stage 4 is delivered by subject specialist wherever possible and involves students receiving access to all the science (2 lessons/discipline) throughout the school year to aid maximum progress in all areas. Homework is set either weekly or via a modulated homework booklet. Students in KS4 are welcome to bring these along to study support on a Thursday after school (3-4pm).

The following schedule is delivered at the teachers' discretion such that it may be adapted appropriately according to pupil ability and progress.

Teachers should aim to have taught at least half the KS4 GCSE content in year 10 and Year 11 should include at least 1 week to focus on examination technique and practice.

Year 10				
CB = Mrs C Beetham LC= Miss L Conn JOC= Mrs J O Connor				
Date	10 Triple Science	10 Set 1	10 Set 2	(10 Set 3)
04/09/2017-25/10/2017	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)
October Half Term				
06/11/2017-22/12/2017	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B2: Organisation (LC) C2: Bonding(CB) P2: Electricity (JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>
Christmas Holiday				
08/01/2018-07/02/2018	B3: Infection and Response (LC) C3: Quantitative Chemistry(CB) P3: Particle Model of Matter (JOC)	B3: Infection and Response (LC) C3: Quantitative Chemistry(CB) P3: Particle Model of Matter (JOC)	B3: Infection and Response (LC) C3: Quantitative Chemistry(CB) P3: Particle Model of Matter (JOC)	B3: Infection and Response (LC) C3: Quantitative Chemistry(CB) P3: Particle Model of Matter (JOC)
February Half Term				
19/02/2018-23/03/2018	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P3: Particle Model of Matter (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P3: Particle Model of Matter (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P3: Particle Model of Matter (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P3: Particle Model of Matter (JOC)
Easter Holiday				
09/04/2018-25/05/2018	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P4: Atomic Structure (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P4: Atomic Structure (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P4: Atomic Structure (JOC)	B4: Bioenergetics (LC) C4: Chemical Changes (CB) P4: Atomic Structure (JOC)
May Half term				
04/06/2018-20/07/2018	B4: Bioenergetics (LC) C5: Energy Changes (CB) P5: Forces (JOC)  <i>June- Revision session &amp; Mock Examination for each science.</i>	B4: Bioenergetics (LC) C5: Energy Changes (CB) P5: Forces (JOC)  <i>June- Revision session &amp; Mock Examination for each science.</i>	B4: Bioenergetics (LC) C5: Energy Changes (CB) P5: Forces (JOC)  <i>June- Revision session &amp; Mock Examination for each science.</i>	B4: Bioenergetics (LC) C5: Energy Changes (CB) P5: Forces (JOC)  <i>June- Revision session &amp; Mock Examination for each science.</i>
Summer Holiday				

<b>Year 11</b>				
<b>CB = Mrs C Beetham LC= Miss L Conn JOC= Mrs J O Connor</b>				
Date	11 Triple Science	11 Set 1	11 Set 2	(11 Set 3)
04/09/2017-25/10/2017	B5: Coordination and control(LC) C6: The rate and extent of chemical change(CB) P4: Atomic structure (JOC)	B5: Coordination and control(LC) C6: The rate and extent of chemical change(CB) P4: Atomic structure (JOC)	B5: Coordination and control(LC) C6: The rate and extent of chemical change(CB) P4: Atomic structure (JOC)	B5: Coordination and control(LC) C6: The rate and extent of chemical change(CB) P4: Atomic structure (JOC)
October Half Term				
06/11/2017-22/12/2017	B6: Genetics(LC) C7: Hydrocarbons(CB) P6: Waves(JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B6: Genetics(LC) C7: Hydrocarbons(CB) P6: Waves(JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B6: Genetics(LC) C7: Hydrocarbons(CB) P6: Waves(JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>	B6: Genetics(LC) C7: Hydrocarbons(CB) P6: Waves(JOC)  <i>November- Revision session &amp; Mock Examination for each science.</i>
Christmas Holiday				
08/01/2018-07/02/2018	B7: Variation and Evolution (LC) C8: Chemical Analysis (CB) P7: Electromagnetism (JOC)  <i>February- Revision session &amp; Mock Examination for each science if relevant.</i>	B7: Variation and Evolution (LC) C8: Chemical Analysis (CB) P7: Electromagnetism (JOC)  <i>February- Revision session &amp; Mock Examination for each science if relevant.</i>	B7: Variation and Evolution (LC) C8: Chemical Analysis (CB) P7: Electromagnetism (JOC)  <i>February- Revision session &amp; Mock Examination for each science if relevant.</i>	B7: Variation and Evolution (LC) C8: Chemical Analysis (CB) P7: Electromagnetism (JOC)  <i>February- Revision session &amp; Mock Examination for each science if relevant.</i>
February Half Term				
19/02/2018-23/03/2018	B8: Ecology in Action (LC) C9: The Atmosphere C10 Sustainable Development(CB) P8: Space (JOC)	B8: Ecology in Action (LC) C9: The Atmosphere C10 Sustainable Development(CB) P7: Electromagnetism (JOC)	B8: Ecology in Action (LC) C9: The Atmosphere C10 Sustainable Development(CB) P7: Electromagnetism (JOC)	B8: Ecology in Action (LC) C9: The Atmosphere C10 Sustainable Development(CB) P7: Electromagnetism (JOC)
Easter Holiday				
09/04/2018-25/05/2018	Revision and Past paper practice (All teachers) C10 Sustainable Development(CB)	Revision and Past paper practice (All teachers) C10 Sustainable Development(CB)	Revision and Past paper practice (All teachers) C10 Sustainable Development(CB)	Revision and Past paper practice (All teachers) C10 Sustainable Development(CB)
May Half term				
04/06/2018-20/07/2018	Exam Leave	Exam Leave	Exam Leave	Exam Leave
Summer Holiday				

# Website information

## Science

At KS3 students in Year 7 and 8 undertake twelve separate modules which focus on the key areas of Biology, Chemistry and Physics. In Year 9 the students undertake 9 modules allowing more time for accelerated learning and early entry to KS4. The modules are taught with an emphasis on 'How Science Works' which focuses on the development of key practical skills as well as ensuring that the students build up their theoretical skills. Science is taught by science specialists wherever possible at Christ the King.

Assessment is continuous throughout the year and involves both end of unit tests as well as APP or graded assessments. This allows other skills such as practical skills to also be assessed. All Science Assessments will be assessed, recorded and reported using the new 'Entry- Diamond' assessment model as of September 2017.

In Year 9 on completion of the 9 modules and an end of key stage assessment, students are accelerated into one of the KS4 GCSE pathways allowing maximum success here too.

From 2016 Key Stage 4 students are offered a choice of two pathways for GCSE Sciences. The first option is the GCSE Triple Science Pathway; Biology, Chemistry and Physics. This is an intensive course designed to prepare students for Advanced Level sciences. Students opting for this course should have successfully completed the KS3 course at a minimum of level 6 (GOLD) and will if successful gain 3 GCSEs in Biology, Chemistry and Physics (AQA).

The second option is GCSE AQA Combined Science (Trilogy) GCSE. The course is not as intensive as the Triple Science Pathway but still allows pupils access to Advanced Level sciences.

Students are given quality homework tasks, the completion of which prepares the students for skills needed to excel in each Key Stage. Study support sessions are offered every Thursday after school.