**Year 10 Science TERM 1: Lessons Outline for Triple Science Pupils**

* Pupils have 9 lessons of science a week –they will have 3 lessons of biology, 3 lessons of Chemistry and 3 lessons of physics
* Pupils have access to the **Kerboodle** on-line textbooks for all their science subject areas.
* If absent, pupils should go to the appropriate lesson on Kerboodle where the there is a guided presentation. Any worksheets can also be accessed there. They should read the appropriate pages, make suitable notes on the key learning and then answer the intext questions in full sentences in their books. They can also so any worksheets as directed
* **Homework** will be predominantly set on EDUCAKE – an online assessment programme. Pupils have their own log in and homework should appear automatically.

**IMPORTANT NOTICE:**

* **Please contact your own science teacher directly via your school email for information on the actual lessons you are missing. They will then direct you to the pages you need to work through and send you any sheets etc. Some lessons will be taught over a double lesson.**
* **If you are unable to do this then simply check the last piece of work you did and go to the next lesson listed below. All the lesson names are the titles on the pages in the textbook.**

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| **Term 1**  | **Biology Work set**  | **Chemistry Work Set**  | **Physics Work set**  |
|  | **Chapter B1 Cell Structure and transport (Pages 4-25)**Lesson 1: B1.1 The world of the microscope.Lesson 2: B1.2 Animal and plant cells. Lesson 3: B1.3 Eukaryotic and prokaryotic cells.Lesson 4: B1.4 Specialisation in animal cells. Lesson 5: B1.5 Specialisation in Plant cells. Lesson 6: B1.6 Diffusion. Lesson 7 & 8 : B1.7 Osmosis. Lesson 9: B1.8 Osmosis in plants.Lesson 10: B1.9 Active Transport. Lesson 11: B1.10 Exchanging materials. Lesson 12: Revision/Mind-map of B1Lesson 13: B1 End of unit Assessment **Chapter B1 Cell Division (pages 26-35)** Lesson 1: B2.1 Cell division. Lesson 2: B2.2 Growth & DifferentiationLesson 3: B2.3 Stem Cells. Lesson 4: B2.4 Stem Cell Dilemmas. Lesson 5: Revision/Mind-map B2Lesson 6: B2 End of unit Assessment   | **Chapter C2 Periodic Table** **(Pages 4-21)**Lesson 1: Review of C1 learning from Yr 9Lesson 2: C2.1 Development of the Periodic table Lesson 3: C2.2 Electronic structure and the periodic tableLesson 4: C2.3 Group 1 – the Alkali Metals Lesson 5: C2.4 Group 7 – the Halogens Lesson 6: C2.5 Explaining trendsLesson 7: C2.6 The Transition Elements Lesson 8: Revision lesson for C2 unit Lesson 9: C2 End of unit Assessment **Chapter C3 Structure and Bonding**Lesson 1: C3.1 States of MatterLesson 2: C3.2 Atoms to ions Lesson 3: C3.3 Ionic Bonding Lesson 4: C3.4 Giant Ionic StructuresLesson 5: C3.5 Covalent bonding Lesson 6: C3.6 Structure of simple Molecules Lesson 7: C3.7 Giant Covalent structure Lesson 8: C3.8 Fullerenes and graphene Lesson 9: C3.9 Bonding in metals Lesson 10: C3.10 Giant Metallic Structures *The following lessons may be moved into term 2 – check with teacher.* Lesson 11: C3.11 Nanoparticles Lesson 12: C3.12 Applications of NanoparticlesLesson 13: :Revision lesson for C3 unit Lesson 14: C2 End of unit Assessment  | **Chapter P1 Conservation and Dissipation of Energy (Pages 4-23)**Lesson 1: Intro duction lesson Lesson 2: P1.1 Changes in energy stores Lesson 3: P1.2 Conservation of Energy Lesson 4: P1.3 Energy at work Lesson 5: P1.4 Gravitational Potential Energy Lesson 6: P1.5 KE and Elastic stored energy Lesson 7: P1.6 Energy Dissipation Lesson 8: P1.7 Energy and Efficiency Lesson 9 P1.8 Electrical AppliancesLesson 10: P1.9 Energy and Power Lesson 11: Revision of this unit Lesson 12: P1 End of unit Assessment **Chapter P2 Energy and Transfer by Heating (pages 24-35)** Lesson 1 : P2.1 Energy Transfers by Conduction Lesson 2: P2.1 Req Practical: Comparing materials Lesson 3 P2.2 Infrared Radiation Lesson 4: P2.3 More about Infrared radiationLesson 5: P2.4 Specific Heat Capacity Lesson 6: Req Practical : Specific Heat CapacityLesson 7: Revision of Unit Lesson 8: End of unit assessment  |

**Reminder :**

**KS4 Textbook access AQA GCSE Science textbooks – via Kerboodle**

Go to Kerboodle <https://www.kerboodle.com/users/login?user_return_to=%2Fapp>

* Username is your school login eg **16jsmith**
* Password is either the same as your username or whatever you have reset it to
* Institution code: **ycw7**

Make sure you logout when finished using. If you struggle to get on via Chrome use internet explorer or Microsoft Edge

**Educake**

Go to [www.educake.co.uk](http://www.educake.co.uk)

* Username first name and then first initial then a four digit number eg **johns0123**
* Pupils can reset their password at any time using a link back to their school email by clicking on the ‘trouble logging in – click here for help’ link on the bottom of the login box in blue