**Year 9 Science TERM 4 & 5 : Lessons Outline**

**Home learning Instructions:**

* Pupils have 4 lessons of science a week. They may have more than one teacher so may be being taught units simultaneously, or may be finishing off a term 3 unit.
* Pupils will start this term with the end of KS3 formal assessment, they then go on to **start the GCSE Science curriculum .**
* If absent, pupils should:

Go to the appropriate page in the textbook – note it is now via **Kerboodle** – see details at end of the document on how to access this.

As a minimum they should read the pages, make suitable notes on the key learning and then answer the in text questions in full sentences in their books.

* For extension work pupils can also look at lessons on [BBC Bitesize](https://www.bbc.co.uk/bitesize/subjects/zng4d2p)  or [Oak Academy](https://classroom.thenational.academy/subjects-by-key-stage/key-stage-3/subjects/science)
* **Homework** will be predominantly set on EDUCAKE – an online assessment programme. Pupils have their own log in and homework should appear automatically.

**You can contact your own science teacher directly via your school email for information on the actual lessons you are missing. We have a rota so you may start biology first or you may be starting chemistry first.**

**If you are unable to contact them, then simply check the last piece of work you did in your exercise book and go to the next lesson listed below, or the next page in the textbook. All the lesson names are the titles on the pages in the textbook.**

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| **Term 4 & 5** | **If starting with Biology units ...** | Kerboodle  **AQA Biology textbook** page | **If starting with Chemistry units ...** | Kerboodle  **AQA Chemistry textbook** page |
|  | **Biology :**  **Chapter B1 Cell Structure and transport**  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 B1  Lesson 13: B1 End of unit Assessment  **Chapter B2 Cell Division**  Lesson 1: B2.1 Cell division.  Lesson 2: B2.2 Growth & Differentiation  Lesson 3: B2.3 Stem Cells.  Lesson 4: B2.4 Stem Cell Dilemmas.  Lesson 5: Revision/Mind-map B2  Lesson 6: B2 End of unit Assessment  **Oak Academy lessons on both of these units can be found here:**  <https://classroom.thenational.academy/units/cell-biology-b859> | Pages 4-25  Pages 26-35 | **Chemistry :**  **Chapter C1 Atomic Structure**  Lesson 1: C1.1 Atoms  Lesson 2: C1.2 Chemical equations  Lesson 3 and 4 C1.3 Separating mixtures  Lesson 5 & 6 C1.4 Fractional Distillation & Chromatography  Lesson 7 C1.5 History of the atom  Lesson 8 C1.6 Structure of the atom  Lesson 9 C1.7 Ions atoms and isotopes  Lesson 10 C1.8 Electronic Structure  Lesson 11 C1 End of unit assessment  **Chapter C2 Periodic Table**  Lesson 1: Learning reminder from Yr 9  Lesson 2: C2.1 Development of the Periodic table  Lesson 3: C2.2 Electronic structure and the periodic table  Lesson 4: C2.3 Group 1 – the Alkali Metals  Lesson 5: C2.4 Group 7 – the Halogens  Lesson 6: C2.5 Explaining trends  Lesson 7: Revision lesson for C2 unit  Lesson 8: C2 End of unit Assessment  **Oak Academy lessons on both of these units can be found here:**  <https://classroom.thenational.academy/units/atomic-structure-and-periodic-table-c831> | Pages 4-21  Pages 22-35 |

**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