**Year 11 Science TERM 3: Lessons Outline for Triple Science Pupils**

**Home learning Instructions:**

* 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:

1. Go to the appropriate lesson on Kerboodle where there is a guided presentation.
2. Any worksheets required can also be accessed there.

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

**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 3** | **Biology Work set** | **Chemistry Work Set** | **Physics Work set** |
|  | **Please check with teacher as two separate groups are at different places**  **B13 Reproduction (pages 196-217)**  B13.1 Types of reproduction  B13.2 Cell division in sexual reproduction  B13.3 The best of both worlds  B13.4 DNA and the genome  B13.5 DNA Structure and Protein Synthesis  B13.6 Gene Expression and mutation  B13.7 Inheritance in action  B13.8 More about genes  B13.9 inherited disorders  B13.10 Screening for genetic disorders  Revision of unit  B13 assessment  **B14 Variation and evolution**  **(pages 218-233)**  B14.1 Variation  B14.2 Evolution by Natural Selection  B14.3 Selective Breeding  B14.4 Genetic Engineering  B14.5 Cloning  B14.6 Adult Cell Cloning  B14.7 Ethics of genetic technologies  Revision of unit  B14 assessment | **Please check with teacher as two separate groups are at different places**  **C10 Organic reactions (pages 158-167)**  C10.1 Reactions of the alkenes  C10.2 Structures of alcohols, carboxylic acids & esters  C10.3 Reactions and uses of alcohols  C10.4 Carboxylic acids and esters  Revision of unit  C10 assessment  **C11 Polymers (Pages 168-177)**  C11.1 Addition Polymerisation  C11.2 Condensation polymer  C11.3 Natural Polymers  C11.4 DNA  Revision of unit  C11 Assessment  **C12 Chemical Analysis (Pages 180-193)**  C12.1 Pure substances and mixtures  C12.2 Analysing chromatograms  C12.3 Testing for gases  C12.4 Tests for positive ions  C12.5 Tests for negative ions  C12.6 Instrumental Analysis  Revision of unit  C12 assessment | **Please check with teacher as two separate groups are at different places**  **P12 Wave Properties (pages 174-189)**  P12.1 The nature of waves  P12.2 The properties of waves  P12.3 Reflection and refraction  P12.4 More about waves  P12.5 Sound waves  P12.6 The uses of ultra sound  P12.7 Seismic waves  Revision of unit  P12 assessment  **P13 Electromagnetic Waves**  **(pages 190-201)**  P13.1 The Electromagnetic Spectrum  P13.2 Light, infrared, microwaves and radiowaves  P13.3 Communications  P13.4 UV, xrays and gamma rays  P13.5 x-rays in medicine  Revision of unit  P13 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