28th March 2024

Dear Parents/Carers

As we are approaching the exams in May, please find below details of what the students can and should be doing at home.

**Revision at home:**

The course we follow is Edexcel 9-1 Combined Science or Edexcel 9-1 Chemistry, Physics and Biology. Topics that will be included in these exams are in the table below:

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| **Science** | **Content – Paper 1** | **Links and resources** |
| Biology: combined (CB) and triple (SB) | CB1/SB1 – key conceptsCB2/SB2 – growth and geneticsCB3/SB3 – the nervous systemCB4/SB4 – evolution and selective breedingCB5/SB5 – health and disease | BBC bitesize: [Biology (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/z3d77p3)[GCSE Biology (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zcq2j6f)You tube: [The whole of Edexcel Biology Paper 1 in only 84 minutes!! Revision for 9-1 GCSE Bio Combined Science - YouTube](https://www.youtube.com/watch?v=O_a9BRQbVc0)[Edexcel Biology Paper 1 | Revision Playlist for Combined and Separate Science GCSE - YouTube](https://www.youtube.com/playlist?list=PL7O6CcKg0HaGZ77aXCNj2BgbFWoqE60mA)Revision material on the revision classroom (please see below) |
| Chemistry: combined (CC) and triple (SC) | CC1-2/SC1-2 – separating techniquesCC3-4/SC3-4 – electronic structureCC5-7/SC5-7 – bondingCC8/SC8 – acids and alkalisCC9-12/SC9-13 – ores, electrolysis, extracting metals and equilibriaSC14-15 -Fuels and fertiliser | BBC bitesize: [Chemistry (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zqhffcw)[GCSE Chemistry (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zy984j6)You tube: [The whole of EDEXCEL Chemistry Paper 1 or C1 in only 74 minutes. 9-1 GCSE Science Revision - YouTube](https://www.youtube.com/watch?v=5inBtFdZa7A)[Edexcel Chemistry Paper 1 | Revision Playlist for Combined and Separate Science GCSE - YouTube](https://www.youtube.com/playlist?list=PL7O6CcKg0HaHEk4po9H_96J5ptOjzW5Zc)Revision material on the revision classroom (please see below) |
| Physics: Combined (CP) and triple (SP) | CP1/SP1- distance/velocity time graphs and accelerationCP2/SP2 – motion and forcesCP3/SP3 – conservation of energyCP4-5/SP4-5 – waves and the EM spectrumCP6/SP6 - radiationSP7 - space | BBC bitesize: [Physics (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zwxppbk)[GCSE Physics (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zqpshv4)You tube: [The whole of Edexcel Physics Paper 1 in only 56 minutes! GCSE 9-1 revision - YouTube](https://www.youtube.com/watch?v=4GxHd7ATpao)[Edexcel Physics Paper 1 | Revision Playlist for Combined and Separate Science GCSE - YouTube](https://www.youtube.com/playlist?list=PL7O6CcKg0HaG02bkdMeRAb9d1wZZj4QWq)Revision material on the revision classroom (please see below) |

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| **Science** | **Content – Paper 2** | **Links and resources** |
| Biology: combined (CB) and triple (SB) | CB6 – Photosynthesis **Triple:** PhototropismCB7 – Hormones and the menstrual cycle **Triple:** Thermoregulation and the kidneyCB8 – The heart, blood andrespirationCB9 – Parasites and mutualists and the **HT** Nitrogen cycle **Triple:** Food security and decomposition**HT** CB1- Enzymes **Triple**: Food tests | BBC bitesize: [Biology (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/z3d77p3)[GCSE Biology (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zcq2j6f)You tube: [The whole of Edexcel Biology Paper 2 in only 50 minutes! Revision for 9-1 GCSE Bio Combined Science - YouTube](https://www.youtube.com/watch?v=L6ODraBBZRg)Revision material on the revision classroom (please see below) |
| Chemistry: combined (CC) and triple (SC) | CC16-17: The Atmospherecombustion, **ST only:** Fractional distillation and electrolysis,CC14-16 – Halogens,Alkali metals, rates of reaction**Triple** – Polymers, alcohols, nano particles **ST only:** tests for ions | BBC bitesize: [Chemistry (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zqhffcw)[GCSE Chemistry (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zy984j6)You tube: [The whole of EDEXCEL Chemistry Paper 2 or C2 in only 47 minutes. 9-1 GCSE Science Revision - YouTube](https://www.youtube.com/watch?v=woYFftjEkeM)Revision material on the revision classroom (please see below) |
| Physics: Combined (CP) and triple (SP) | CP7/8 (SP8/9): Work done (whole topic)CP9 (SP10/11) - Electrical safety, resistance. **Triple only:** Static electricity and fieldsCP10/11 (SP12/13): Magnets and transformers **HT only**: Fleming’s LHR and EMICP12/13 (SP14/15): Pressure, density and springs **Triple:** Gas and water pressure and moments. | BBC bitesize: [Physics (Combined Science) - GCSE Combined Science Revision - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/topics/zwxppbk)[GCSE Physics (Single Science) - Edexcel - BBC Bitesize](https://www.bbc.co.uk/bitesize/examspecs/zqpshv4)You tube: [The whole of EDEXCEL Physics Paper 2 or P2 in only 41 minutes. 9-1 GCSE Science Revision - YouTube](https://www.youtube.com/watch?v=VY-I7aeHXOI)Revision material on the revision classroom (please see below) |

To facilitate and enable your son/daughter to achieve their best in their sciences GCSEs, we will be completing after school revision sessions on Tuesdays after school until 4pm and they will be divided into higher, foundation and triple classes. Please look on the notice board as to what each session will be including.

**Revision classroom:**

To further aid your child’s progress, the Science department have provided the students with additional resources to be utilised outside the classroom – specifically at home. We have created a Google classroom focused around the skills and knowledge that they require to move up to the next grade. This term we have released the paper 2 content onto the classroom and this will also be where the online revision sessions will be placed in the classwork section under the “revision sessions” section.

The code for this classroom is: **ccwjzit**

Please note that no assignments will be set in this classroom, it will not be monitored. It is purely for the students’ own use during revision at home.

An example of the sorts of plan students could be following at home include:

Grade 7-9:

* 10 minutes every day – pick one topic to answer questions from revision cards. This can be done on the bus or at home or during break/lunch
* 10 minutes every day – look over videos of topic (YouTube) or Seneca – focus on the areas you do not understand so much – again on the bus or at break/lunch
* 30 minutes every day – pick one of 2 questions to complete from the independent booklets on the Google classroom or the ones in the hive or in L10 (they are the same ones just printed out) – Answers available from teacher
* Twice a week – Re-visit questions that your did not do so well on and redo them (this is really important in order to improve
* Once a week – complete a past paper

Grade 5-6:

* Use the revision checklists to highlight weaker areas
* 10 minutes every day – pick one topic to answer questions from revision cards. This can be done on the bus or at home or during break/lunch
* 10 minutes every day – look over videos of topic or Seneca – focus on the areas you do not understand so much – again on the bus or at break/lunch
* 30 minutes 3x a week – pick one of 2 questions to complete from the independent booklets on the Google classroom or the ones in the hive or in L10 (they are the same ones just printed out) – Answers available from teacher
* 30 minutes complete timed exam questions and mark them – week 1 – front half of a paper, week 2 – back half of a paper.

Grade 1-4:

* Use the revision checklists to highlight weaker areas
* 10 minutes every day – pick one topic to answer questions from revision cards. This can be done on the bus or at home or during break/lunch
* 10 minutes every day – look over videos of topic or Seneca – focus on the areas you do not understand so much – again on the bus or at break/lunch
* 20 minutes twice a week – pick one of 2 questions to complete from the independent booklets on the Google classrooms or the ones in L10 (they are the same ones just printed out) – Answers available from teacher

We still encourage students to utilise other resources such as Physics and Maths tutor, Seneca, as well as their study guides and work books.

Thank you for your support in ensuring that students maximise their opportunities for success in GCSE Science.

Yours sincerely

Mrs Wiseman

Head of Science

Campion School Science Department

a.wiseman@campionschool.org.uk