



Headteacher: Mr I. Bryant

Founder Academy of the Mercian Trust

March 2022

Dear Parents/Carers,

With examinations for the summer 2022 going ahead, we would like to make you aware of the support we are offering your child in achieving their potential in their Combined Science GCSE.

- After school revision session will take place once a fortnight, as per the revision plan sent out by the school. We would encourage as many students to attend as possible, particularly if their teacher has directed them to do so.
- Weekly homework will be set on Seneca to support your child progress in retaining scientific knowledge. Seneca is an online platform, which they access by using their own login and password. The work they can access is interactive and has many low stakes tests and quizzes to help them build retention of knowledge.
- Attached is a revision plan which indicates the topics which will be reviewed during lessons. The work will be placed on Google Classroom which will also support your child's own revision at home.

I would also like to make you aware of the information from the AQA exam board regarding content on each exam. The exam board has indicated on their website the major focus for the content in each exam, and the required practical activities that will be assessed. They have also shared the topics that will not be assessed and therefore will not need to be revised and learnt by your child. This information is available using the following hyperlinks:

Combined science <https://filestore.aqa.org.uk/content/summer-2022/AQA-8464-AI-22.PDF>

Biology higher <https://filestore.aqa.org.uk/content/summer-2022/AQA-8461-AI-22.PDF>

Chemistry higher <https://filestore.aqa.org.uk/content/summer-2022/AQA-8462-AI-22.PDF>

Physics higher <https://filestore.aqa.org.uk/content/summer-2022/AQA-8463-AI-22.PDF>

I would encourage you to look at this with your child, so that they are clear on the content being covered. We will also be doing this in school which will clarify and support their revision.

Should you have any questions please use the following email address:
sullivan.r@ald.merciantrust.org

Yours faithfully,

Miss Rebekah Sullivan
Science Faculty Leader





Y11 Revision Plan Separate Science Physics

Week Beginning	Lesson 1	Lesson 2
28/2/22	Space	Space
7/3/22	Physics Mock	Follow Up
14/3/22	Energy	Energy
21/3/22	Electricity	Electricity
28/3/22	Particle Model	Particle Model
4/4/22	Atomic Structure	Atomic Structure
Easter		
25/4/22	Forces	Forces
2/5/22	Forces	Forces
9/5/22	Waves	Waves
16/5/22	Electromagnetism	Electromagnetism
23/5/22	Space / RP Skills	Space / RP Skills

Y11 Revision Plan Separate Science Biology

Week Beginning	Lesson 1	Lesson 2
25/4/22	Review RP 1 Microscopy and Cell structure	Review RP 3 Osmosis and Transport in cells
2/5/22	Review RP 4 Food Tests/ Digestion/enzymes	Heart/CHD/ Health Issues
9/5/22	Plant organs/ tissues/ Communicable Disease (pathogens)	Communicable disease (defence) / Monoclonal antibodies
16/5/22	Control of blood glucose and body temperature/ Water balance	Plant hormones/ Review RP 9 Population size/ Review RP8 Response to light
23/5/22	Reproduction- meiosis, DNA (genome, inheritance (& disorders)	Food chains/webs/predator prey, materials recycling, decomposition



Y11 Revision Plan Separate Science Chemistry

Week Beginning	Lesson 1	Lesson 2
28/2/22	Chemical changes Revision	Making Salts RP
7/3/22	Titration Calculations Revision	Titrations RP
14/3/22	PC3 Assessment 2	Follow Up
21/3/22	Atomic Structure Revision	Periodic Table Revision
28/3/22	Earth's Atmosphere Revision	Earth's Resources Revision
4/4/22	Year 9 content test	Structure and Bonding Revision
Easter		
25/4/22	Chemical Calculations Revision	Energy Changes Revision
2/5/22	Temperature Changes RP	Electrolysis Revision including HFCs
9/5/22	Crude oil and Fuels Revision	Year 10 Content test
16/5/22	Rates Revision	Equilibria Revision
23/5/22	Organic Reactions Revision	Using Resources Revision

Y11 Revision Plan Combined Science Physics

Week Beginning	Lesson 1	Lesson 2
28/2/22	Electricity	Electricity
7/3/22	Electricity	Particle Model
14/3/22	Particle Model	Particle Model
21/3/22	Forces	Forces
28/3/22	Forces	Forces
4/4/22	Waves	Waves
Easter		
25/4/22	Waves	Waves
2/5/22	Physics Mock	Follow Up
9/5/22	Electromagnetism	Electromagnetism
16/5/22	Electromagnetism	RP Skills
23/5/22	RP Skills	RP Skills



Y11 Revision Plan Combined Science Biology/Chemistry

Week Beginning	Lesson 1	Lesson 2	Lesson 3
28/2/22	Cell structure & specialisation (F/H) RP1 Light Micro. (F)	Cell Division Stem cells (F/H)	Enzymes (F/H) RP3 Food Tests (F/H)
7/3/22	Digestion (F/H) RP4 Enzyme pH (H)	Heart, blood & breathing (F no CHD)	Communicable disease (F) Infectious disease, vaccination, antibiotics, drug development (H)
14/3/22	Photosynthesis (F/H) (do not need uses of glucose) RP6 Photosynthesis (F/H)	Respiration (H) (no exercise) Plant tissues (F)	Biology Mock (possibly WT)
21/3/22	Structure and bonding	Structure of an atom and periodic table	Calculations
28/3/22	Hydrocarbons and Fuels	Chemical Changes (making salts)	Electrolysis
4/4/22	Earth's Resources	Chemical Analysis	Chemistry Mock (possibly WT)
Easter			
25/4/22	Hormonal control in humans /glucose/ (F/H) Reproduction hormones/ menstrual (H) Contraception not needed (F/H)	Meiosis (H) Genetic inheritance & disorders (F) Selective breeding(H)	RP7 Distribution (F/H) Evidence for evolution/fossils/ classification (F) Biodiversity (H)
2/5/22	Communities/abiotic & biotic factors (F/H)	Food chains/webs/ predator prey cycles (F/H)	Global warming & maintaining biodiversity (H) RP1,3 and 6 (F)
9/5/22	Rates and Equilibria	Energy Changes	The Earth's Atmosphere