



Norton College Science Faculty
COMBINED SCIENCE REVISION



Name:

Set:

The grade I want to achieve is:

To get the grade I want, I am going to:

Revision – what works?

Researchers have found that there are **2 techniques** that work better than all the others put together! They are:

1. **start early, revise little and often, but keep coming back to the same material** so that you see it over and over again, over time;
2. read over your notes, make flash cards, and **test yourself, over and over again**, and over time.

The two key ideas are: test yourself; repeat your testing over a period of time.

So **start NOW!** Use your **revision guide** to make flash cards, and test yourself again and again over the coming weeks.

Here is some more useful advice...

1. **Make a revision timetable.** Plan when you will do homelearning, when you will revise, and when you will take time off. Share your timetable with your family so they know when you need support. Stick up your timetable and tick off your revision sessions - you will get a sense of achievement from doing this. Remember to put after school revision sessions in your timetable.
2. Make sure you have somewhere **quiet and comfortable** to revise. Get yourself a comfortable chair and a desk or table, and find plenty of paper, pens, post-it notes, and highlighters.
3. Plan your **revision in 30 minute sessions** and take a 10 minute break between each session. Research shows that you learn best at the start and end of each revision session; breaking them up means more starts and ends!
4. Plan to do at least **3 thirty minute sessions each week day evening**. Take Friday off! Plan to do at least **4 sessions on Saturday and Sunday**. That will give you over 10 hours revision each week - plenty of time!

5. Whatever you revise on one day, **start the next day's revision by quickly looking over what you did the day before**. This will refresh your memory and help make it stick. After a week, spend one session quickly going over **everything you did the week before**. This will make your knowledge rock solid!
6. Make your revision **ACTIVE**. Don't sit and read a book without doing anything. Make flash cards; summarise information on post-it notes; make mind maps.
7. **Display important ideas**. Use posters and mind maps and stick them on your walls. Use post-it notes to stick important facts all over the house - let your parents know what you are doing and why!
8. Make **podcasts** and listen to them on your way to and from school - it works!
9. Make up **songs and rhymes** about important ideas - the sillier the better! Sing them in the bath!!
10. Do **past exam questions**. You will have plenty of these from your teachers. It does not matter if you have done them before. Examiners repeat the same sort of questions year after year, so being really familiar with some key questions means you will know what to do when you see them again!

The assessments

Hints and tips

REMEMBER...Every mark matters! Don't be put off if there are questions you really can't do...don't panic...have a go anyway!

- **Before you start the assessment...**
 - scribble quick mind maps on to blank spaces or on the back of the paper - you've got time because you don't have to finish every question to get a good grade, and it will help organise your thoughts and settle you down;
- **For every question...**
 - **read** the question VERY carefully...and then read it again;
 - look for words in **bold** that the examiner wants you to pay attention to;
 - **underline** the key words;
 - look carefully at **diagrams** - they are not there to decorate the paper; highlight or circle important information on the diagrams;
 - look carefully at any **tables** of information - they are put there to help you; ask yourself whether it would be useful to work out averages, means, totals, differences, that could help with your answers;
 - look how many **marks** there are for each part, and write at least that many sentences (one more, just to be safe, if you can).
- **6 mark questions...write 7 sentences!** Here's the strategy...
 - underline **keywords** in the question;
 - examine any **diagrams** or **tables** carefully and look for clues and information; highlight these;
 - make a **mind map**; include the information from the question, from the diagram and table if there is one, and **what you know**; make sure there are at least **6 points**;
 - turn your mind map into a paragraph; write a sentence for each point on your mind map; write an introductory sentence; write a sentence to finish it off.
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- **Calculation** questions...

- underline the **keywords** in the question (sometimes you will have to add the keywords, especially 'distance' and 'time');
- Use the **equations** sheet given;
- find the one with the keywords in; **write this equation** in the answer space (and get a mark!);
- EITHER use a **triangle** to rearrange the equation OR put in the numbers you can;
- finish the calculation;

IF YOU DON'T KNOW WHAT TO DO, multiply the numbers and hope for the best

Using your revision guide...

Topic	Revision guide pages	Videos to support	Exam questions	Tick when complete
B1 - cell biology	H Pages 11 to 23 F pages 11 to 21 Cells, Microscopy, Chromosomes, Stem cells and Transport Revision questions on page 23	https://goo.gl/v6oa4L - broken into 17 short videos here https://www.my-gcscience.com/aqa/biology/ - cell biology video	http://SEOATOE.examp.ro.net Foundation http://EAKOTIG.examp.ro.net Higher	
C1 - Atomic structure	H Pages 96-110 F Pages 96-111 Atoms, elements and compounds, Separating mixtures, The Periodic table H Revision questions on page 111 F Revision questions on page 112	https://goo.gl/MnviXf - broken into 20 short videos here	https://cizepud.examp.ro.net/ Foundation https://sofojuy.examp.ro.net/ Higher	

P1 - Energy	H Pages 167-177 F Pages 167-179 Energy stores, specific heat capacity, Efficiency and Energy resources H Revision questions page 178 F Revision questions page 192	https://goo.gl/zPK4UU - broken into 15 short videos here	http://queecus.examp.ro.net/ Foundation http://sunykor.examp.ro.net/ Higher	
B2 - Organisation	H Pages 24-41 F Pages 24-40 Enzymes, Food tests, Circulatory system and Plant cell organisation. H Revision questions page 42 F Revision questions page 41	https://goo.gl/284T9r - 17 videos covering whole topic https://goo.gl/HvRLUK - 20min video on whole topic	http://ZEUYHOA.examp.ro.net Foundation http://MIKEFEL.examp.ro.net Higher	
C2 - Structure and bonding	H Pages 112-121 F Pages 113-122 Ionic, covalent and metallic bonding, States of matter and Changing state H Revision questions page 122 F Revision questions page 127	https://goo.gl/BXM5uR - broken into 13 short videos	https://paeucye.examp.ro.net/ Foundation https://paeucye.examp.ro.net/ Higher	

<p>P2 - Electricity</p>	<p>H Pages 179-188 F Pages 180-191 Current, Resistance, potential difference, I-V characteristics, Electricity in the home and the national grid. H Revision questions page 190 F Revision questions page 192</p>	<p>https://goo.gl/sDEJH2 - Videos 1-21.</p>	<p>http://eibujuq.exampro.net/ Foundation http://oigyhik.exampro.net/ Higher</p>	
<p>B3 - Infection and response</p>	<p>H Pages 43-49 F Pages 42-49 Communicable diseases, Microorganisms, Fighting diseases and Developing drugs. H Revision questions page 57 F Revision questions page 56</p>	<p>https://goo.gl/VyvBB8 - 14 videos on topic https://goo.gl/142GWY - 20min video on whole topic</p>	<p>http://BIPOZER.exampro.net/ – Foundation http://XYUVAX.exampro.net Higher</p>	
<p>C3 - Quantitative chemistry</p>	<p>H Pages 123-128 F Pages 123-127 Relative formula mass, The mole, Conservation of mass and concentration of solutions. H Revision questions page 137</p>	<p>https://www.youtube.com/watch?v=eAibVvhmsKO - here is the whole topic</p>	<p>https://lewpup.exampro.net/ Foundation https://lewpup.exampro.net/ Higher</p>	

	F Revision questions page 127			
P3 - Particle model	H Pages 191-194 F Pages 193-196 The particle model, density, internal energy and specific latent heat H Revision questions page 200 F Revision questions page 202	https://goo.gl/fEt3nR - broken into 9 short videos here	http://sesuquq.examprou.net/ Foundation http://jubayip.examprou.net/ Higher	
P4 - Atomic structure	H Pages 195-199 F Pages 197-201 The model of the atom, Isotopes, Nuclear equations. Half-life, Irradiation and contamination. H Revision questions page 200 F Revision questions page 202	https://goo.gl/vqRmLM - broken into 11 short videos here	http://bogynux.examprou.net/ Foundation http://gonuher.examprou.net/ Higher	

<p>B5 - Homeostasis and response</p>	<p>Pages 58-67 F Pages 58-67 Homeostasis, Nervous system, synapses and reflexes, The endocrine system, controlling blood glucose levels H Revision questions page 82 F Revision questions page 82</p>	<p>https://www.youtube.com/watch?v=xOfqw7MbU8k https://www.youtube.com/watch?v=oDS1hAqWp2M</p>	<p>https://nueyoor.examprompro.net/ - Foundation https://uukoood.examprompro.net/ - Higher</p>	
<p>C4 - Chemical changes</p>	<p>H Pages 129-136 F Pages 128-133 Acids and bases, Reactions of acids, Redox reactions and Electrolysis H Revision questions page 137 F Revision questions page 137</p>	<p>https://goo.gl/olvAuW - Reactivity series https://goo.gl/v8xS1W - Electrolysis https://goo.gl/hRJVFN - Metal extraction</p>	<p>https://hesurek.examprompro.net/ - Foundation https://govicuj.examprompro.net/ - Higher</p>	

<p>C5 - Energy Changes</p>	<p>H Pages 138-140 F Pages 134 -136 Exothermic and endothermic reactions and Bond energies H Revision questions page 141 F Revision questions page 137</p>	<p>https://www.youtube.com/watch?v=4HS6D0hTzdg&list=PL9IouNCPbCxX74bPz0TGVVmyGYgMarWu - broken in 6 videos</p>	<p>https://xacepaw.examp.ro.net/ - Foundation https://qinowoh.examp.ro.net/ - Higher</p>	
<p>P5 - Forces</p>	<p>H Pages 201-216 F Pages 203-217 Contact and non-contact forces, Weight, Springs, Acceleration. Travel graphs, Newton's laws, Stopping distances and Momentum H Revision questions page 217 F Revision questions page 218</p>	<p>Whole topic review video https://www.youtube.com/watch?v=Rz4XBSKNGXg#action=share</p>	<p>https://quiodof.examp.ro.net/ Foundation https://hajiyih.examp.ro.net/ Higher</p>	
<p>B6 - Inheritance and selection</p>	<p>H Pages 68-74 F Pages 66-72 DNA, Meiosis, Genetic diagrams H Revision questions page 82 F Revision questions page 82</p>	<p>https://www.youtube.com/watch?v=Fh9b6a-3DLQ&list=PL9IouNCPbCxWt28Bifo2jk9xn-ym956sf (9 short videos – avoid Triple videos)</p>	<p>https://uieugej.examp.ro.net/ - Foundation</p>	

<p>C7 - Organic Chemistry</p>	<p>H Pages 150-152 F Pages 146-149 Hydrocarbons, Fractional distillation and cracking Revision questions page 156 Revision questions page 154</p>	<p>https://www.youtube.com/watch?v=PYMWUz7TC3A – Fractional distillation https://www.youtube.com/watch?v=Xsqlv4rWnEg – Cracking https://www.youtube.com/watch?v=ykIFtTjoso – hydrocarbons</p>	<p>https://wonuxuq.examprompro.net/ Foundation https://teaonag.examprompro.net/ Higher</p>	
<p>C9 - Chemistry of the Atmosphere</p>	<p>H Pages 157-160 F Pages 155-158 The Evolution of the atmosphere, Greenhouse gases and climate change Revision questions page 166</p>	<p>History of the earth's atmosphere video https://www.youtube.com/watch?v=sturoUChNo4&feature=youtu.be Effects of pollutants on health https://www.youtube.com/watch?v=TXSK7Qvmlps&feature=youtu.be</p>	<p>https://quzehim.examprompro.net/ Foundation https://gipyfyg.examprompro.net/ Higher</p>	