



**THE BICESTER
SCHOOL**

Aspire and Achieve

Academic Progress evening

How to revise for
science



Effect of Good Revision

2018 Progress 8 Results

Combined Science Attainment

Combined Science:	+0.50	3-4+: 82%
Biology:	+0.42	4-4+: 67%
Chemistry:	+0.62	4-5+: 63%
Physics:	+0.50	5-5+: 49%
		7-7+: 11%

1. Start Early

Science is a very large subject – there is A LOT to learn. Make a revision timetable.

Approximately 30 minutes of dedicated time per subject.

Increase this at Easter and then again during the Exams.

Revision Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration					
Lunch time					
After school / Period 5					
4:00 – 4:30					
4:30 – 5:00					
5:00 – 5:30					
5:30 – 6:00					
6:00 – 6:30					
6:30 – 7:00					
7:00 – 7:30					
7:30 – 8:00					
8:00 – 8:30					
8:30 – 9:00					

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration		<i>Science</i>	<i>English</i>		
Lunch time					
After school / Period 5			<i>Geography</i>		
4:00 – 4:30					
4:30 – 5:00					
5:00 – 5:30					
5:30 – 6:00					
6:00 – 6:30					
6:30 – 7:00					
7:00 – 7:30					
7:30 – 8:00					
8:00 – 8:30					
8:30 – 9:00					

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration		<i>Science</i>	<i>English</i>		
Lunch time					
After school / Period 5			<i>Geography</i>		
4:00 – 4:30			<i>Football Training</i>		
4:30 – 5:00			<i>Football Training</i>		
5:00 – 5:30			<i>Football Training</i>		<i>Dinner</i>
5:30 – 6:00			<i>Football Training</i>		
6:00 – 6:30	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	
6:30 – 7:00					
7:00 – 7:30					<i>Swimming</i>
7:30 – 8:00					<i>Swimming</i>
8:00 – 8:30	<i>Only Connect</i>		<i>Masterchef</i>	<i>Masterchef</i>	<i>Swimming</i>
8:30 – 9:00	<i>University Challenge</i>				<i>Swimming</i>

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration		<i>Science</i>	<i>English</i>		
Lunch time					
After school / Period 5			<i>Geography</i>		
4:00 – 4:30			<i>Football Training</i>		
4:30 – 5:00			<i>Football Training</i>		
5:00 – 5:30			<i>Football Training</i>		<i>Dinner</i>
5:30 – 6:00			<i>Football Training</i>		
6:00 – 6:30	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	
6:30 – 7:00	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	
7:00 – 7:30	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Swimming</i>
7:30 – 8:00					<i>Swimming</i>
8:00 – 8:30	<i>Only Connect</i>		<i>Masterchef</i>	<i>Masterchef</i>	<i>Swimming</i>
8:30 – 9:00	<i>University Challenge</i>				<i>Swimming</i>

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration		Science	English		
Lunch time					
After school / Period 5			Geography		
4:00 – 4:30			Football Training		
4:30 – 5:00	Maths	Biology	Football Training	Physics	English
5:00 – 5:30			Football Training		Dinner
5:30 – 6:00	Chemistry	English	Football Training	Maths	Chemistry
6:00 – 6:30	Dinner	Dinner	Dinner	Dinner	
6:30 – 7:00	Homework	Homework	Homework	Homework	Geography
7:00 – 7:30	Homework	Homework	Homework	Homework	Swimming
7:30 – 8:00					Swimming
8:00 – 8:30	Only Connect		Masterchef	Masterchef	Swimming
8:30 – 9:00	University Challenge				Swimming

	Monday	Tuesday	Wednesday	Thursday	Friday
Registration		<i>Science</i>	<i>English</i>		
Lunch time					
After school / Period 5			<i>Geography</i>		
4:00 – 4:30	<i>Socialise</i>	<i>Socialise</i>	<i>Football Training</i>	<i>Socialise</i>	<i>Socialise</i>
4:30 – 5:00	<i>Maths</i>	<i>Biology</i>	<i>Football Training</i>	<i>Physics</i>	<i>English</i>
5:00 – 5:30	<i>Socialise</i>	<i>Socialise</i>	<i>Football Training</i>	<i>Socialise</i>	<i>Dinner</i>
5:30 – 6:00	<i>Chemistry</i>	<i>English</i>	<i>Football Training</i>	<i>Maths</i>	<i>Chemistry</i>
6:00 – 6:30	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Socialise</i>
6:30 – 7:00	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Geography</i>
7:00 – 7:30	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Homework</i>	<i>Swimming</i>
7:30 – 8:00	<i>X-Box</i>	<i>X-Box</i>	<i>X-Box</i>	<i>X-Box</i>	<i>Swimming</i>
8:00 – 8:30	<i>Only Connect</i>	<i>X-Box</i>	<i>Masterchef</i>	<i>Masterchef</i>	<i>Swimming</i>
8:30 – 9:00	<i>University Challenge</i>	<i>X-Box</i>	<i>X-Box</i>	<i>X-Box</i>	<i>Swimming</i>

2. Plan What you will revise

Use the specification or a checklist to determine which topics you need to revise the most.

Pick the topics you are least comfortable with first. It is a much more effective use of time than revise topics you understand.

Plan in advance what you will revise in each session – that way you can start quicker and be more efficient.

Paper 1,3,5 will be some of your first exams and based on year 10 topics – revise these first

Paper 2,4,6 will be some of your last exams, based on year 11 topics and after half term.

3. Resources you will need

- A desk or quiet place to focus (away from computer/phone/tv)
- Your GCSE Revision guides
- Blank flash cards
- Pens/Highlighters/Paper

4. Revision Strategies

To start with focus on key words, definitions, key facts.

Leave processes until later, and then application until after Easter.

Just reading through note/revision guide is not useful.

You need to repeat information as many times as possible.

Actively remembering something is different to recognition. They are easy to mistake for each other.

4. Revision Strategies –Revision Guides, BBC Bitesize and the Specification

The Revision Guide is a catch-all resource that will supplement your other strategies. It contains almost everything you need to know for your exams.

BBC Bitesize is more useful for topics you don't understand. It goes into more detail, and has videos, animations and quizzes to test that understanding. It has sections specific to our specification.

<https://www.bbc.com/bitesize>

BBC Bitesize → Secondary → England/GCSE → Science → Combined or separate science → **Edexcel**

The Specification is a large document produced by the exam board. It contains everything you need to know, but sometimes the language isn't pupil friendly.

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html>

4. Revision Strategies – Flash Cards

Flash cards are very good at learning definition and key facts (which there are a lot of and will massively bump up your grade if you learn them)

Use the revision guide to pick out the key words definitions and

On one side put a key word or simple question. On the other put the definition or answer.

Don't overload them with information, one per card.

Add diagrams or silly pictures – they will aid recall.

Use them frequently – test yourself, get other people to test you.

4. Revision Strategies – Revision Posters/notes

Best for understanding whole concepts e.g. electrolysis, ionic bonding, covalent bonding, Mitosis, The EM Spectrum

Make an A5 fact sheet on the topic using information from the revision guide, exercise book and Bitesize. Use lots of pictures, diagrams, flow charts etc. Don't just copy information down; read it, and then put it in your own terms (except definitions – use the exact words for those)

Use them by turning them over and try and reproduce as much of the content and diagrams as possible.

4. Revision Strategies – Past Papers

There are LOTS of past papers and their mark schemes available online. This is because even though the course is new, the old Edexcel papers are VERY, VERY similar.

New Papers:

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.coursematerials.html#filterQuery=Pearson-UK:Category%2FExam-materials>

Old Papers:

<https://qualifications.pearson.com/en/support/support-topics/exams/past-papers.html>

When you start doing past papers, do the first few with your revision guide to help you. You can also do a couple them with the mark scheme with you. Make sure you go through the past papers with the mark scheme at the end, and pick out topics you struggled with and spend extra time on them.

6 Mark questions are especially important, draft perfect answers for these using the mark scheme and revision materials (as they often come up again).