

Year 10 Futures Evening 2017

Science



Respect Progress **Succeed**



Science at Eckington School

- Key Stage 3: Y7-9 originally, now Y7-8
- Key Stage 4: Y10-11 originally, now Y9-11
- Key Stage 5: A levels and BTEC Level 3

Our current Key Stage 4 courses:

- GCSE Edexcel Core Science, Additional and Further Additional Science – Y11
- GCSE AQA Combined Science and Separate Sciences – Y10 + 9 (and all others)



New GCSE started September 2016

- Includes new and more up to date content
- More challenging (20/21 physics equations)
- No controlled assessment
- Required practical activities (21 combined and 27 for single GCSE sciences in total) with a minimum 15% of exam Qs on practical content
- Maths content - 20% of exam in combined, 10% biology, 20% chemistry 30% physics



Grading the New GCSEs in 2017

NEW GCSE GRADING STRUCTURE										
9	8	7	6	5	4	3	2	1	U	
<ul style="list-style-type: none"> ■ Broadly the same proportion of students will achieve a grade 4 and above as currently achieve a grade C and above. ■ Broadly the same proportion of students will achieve a grade 7 and above as achieve an A and above. ■ The bottom of grade 1 will be aligned with the bottom of grade G. 										
A*		A	B		C	D	E	F	G	U
CURRENT GCSE GRADING STRUCTURE										



New grading structure	Current grading structure
9	A*
8	
7	A
6	B
5	
4	C
3	D
2	E
1	F
1	G
U	U

GOOD PASS (DfE)
5 and above = top of C and above

AWARDING
4 and above = bottom of C and above



Reformed GCSE Assessment Changes

- No controlled assessment (coursework)
- 100% Exams

Combined Science GCSE exams

- 6 x 1 hour 10 min papers : 2 for each subject.
- Foundation and higher tiers 1-5 and 4-9.
- Some content overlap between year 1 and year 2
- Two grades awarded (both numbers) and can be different - 2 GCSE grades



Exams

Separate science GCSE exams

- 6 x 1 hour 45 min papers : 2 for each
- Foundation and higher tiers 1-5 and 4-9
- Some content overlap between year 1-2
- 3 separate GCSE grades (numbers)
- Assessment - the great unknown!
- Year 10 exam produced by AQA



Tiers

- Only maths, sciences and MFL
- Higher target grades 4 to 9 (6 target)
- Foundation targets grades 1 to 5
- Minimum of 20% overlap/common marks
- Mixed tier entry is not permitted
- Combined GCSE double award will use a 17 grading scale 1-1, 1-2, 2-2...through to 9-9



Kerboodle

- Online teaching and learning resource with lesson content, access to worksheets, online quizzes/activities and an online text book.
- Quick demo
- <http://fdslive.oup.com/www.oup.com/oxed/secondary/kerboodle/Kerboodle-introduction.mp4?region=uk>
- <https://www.youtube.com/watch?v=gGmUgA88VKQ&index=8&list=PLW-Dpen99Aj6aBAFMSBTcERCu3JjkRovu>



Progression Routes

- A*-B: A levels –biology, chemistry and physics
- A*-C: BTEC Level 3 Applied Science
- D-G: No level 3 science course in Eckington 6th Form
- Many/most employers and colleges still ask for a certain grade in science



Support with science

- Occasionally look through books and discuss****
- Teach me!
- Follow up reading – Bitesize, Kerboodle, Q's on both
- Revision guide...not yet
- Wider reading – Websites (BBC News: Science)
- Science books ('The Science of Everyday Life' and 'Bad Science') and films (Gravity)
- Online videos/films: TED talks with a science theme
- Wider enrichment/experiences - visits





Respect Progress **Succeed**



Supporting your child

- Positive start to the day – develop independence
- Eat breakfast
- Provide a space to work
- Check homework planner
- Routines for home study



Supporting your child

- Ensure they are reading
- Manage screen time
- Exercise
- Get a good nights sleep – mobiles, screens



Stress management

- Routines.
- Regular breaks.
- Exercise.
- Positive thinking.
- Don't try to be perfect.
- Keep perspective/seek help.



Interested in science?

- STEM/Science club run by 6th form science students and staff
- Y8 Lego Robots Challenge
- Astronomy Evening
- National Science Week 2017
- IoM science in
- Trip to CERN next year for Y12-13



Grade boundaries/numbers

- Broadly the same proportion of students will achieve a grade 4 and above as currently achieve a grade C.
- Same for grade 7 and above as an A.
- For each exam, the top 20 per cent of those who get grade 7 or above will get a grade 9 - the very highest performers.
- The bottom of grade 1 will be aligned with bottom of a G.
- Grade 5 will be positioned in the top third of the marks for a current grade C and bottom third of the marks for a current grade B. So greater demand than the present grade C.

