

Year 9 Raising Achievement Evening 2016



Respect Progress **Succeed**



Interested in science?

- Researchers event Sheffield University
- Chesterfield Astronomy evening
- Sheffield Hallam University road show
- Y8 Lego Robots Challenge
- **Astronomy Evening** - Guest speakers, planetarium (tour of the solar system), interactive workshops, telescopes on the field with local astronomers, displays from the space centre, Thursday 17th November 6 - 9pm

National Science Week 2017



Science at Eckington School

Key Stage 3: Y7-9 originally, now Y7-8

Key Stage 4: Y10-11 originally, now Y9-11

Our current Key Stage 4 courses:

- GCSE Edexcel Core Science, Additional and Further Additional Science – Y11
- GCSE AQA Combined Science and Separate Sciences – Y10 and Y9

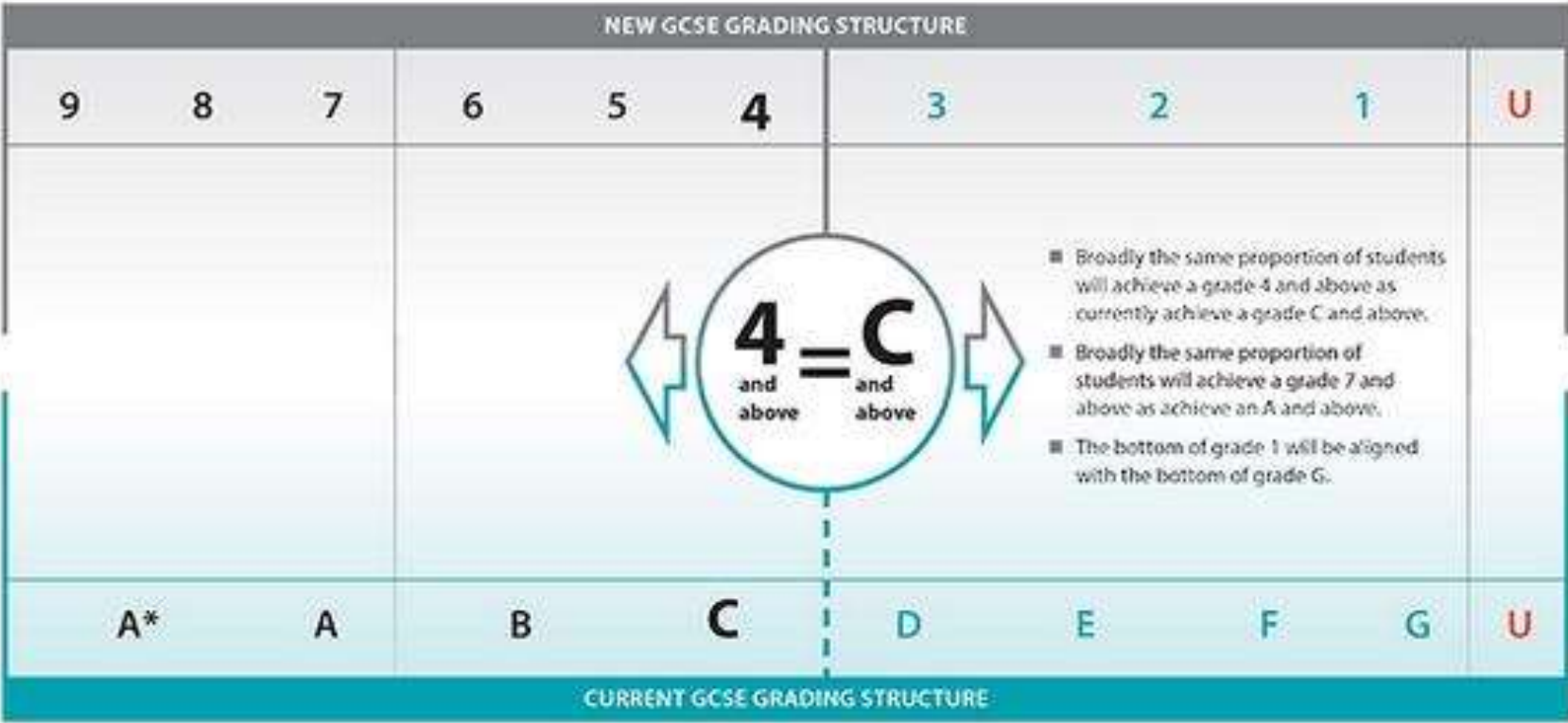


New GCSE started September 2016

- Includes new and more up to date content such as the human genome, life cycle analysis and space physics
- More challenging
- No controlled assessment
- Required practical activities (16 and) with a minimum 15% of exam Qs on practical content
- Maths content 10% 20% 30% - 20% combined



Grading the New GCSEs in 2017



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



- minimum assessment time:
 - separate sciences (3.5 hours)
 - combined science (7 hours).

Assessment Objectives for specifications

AO1	AO2	AO3
40%	40%	20%

Maths weightings

Biology	Chemistry	Physics	Combined Science
10%	20%	30%	20% overall (in ratio 1:2:3)

- Maths level of demand:
 - Foundation Tier (Key Stage 3)
 - Higher Tier (foundation GCSE).

Assessment objectives

The assessment objectives proposed by Ofqual are broadly similar to those for the current GCSEs.

	Assessment Objectives	Weighting
AO1	Demonstrate knowledge and understanding of: <ul style="list-style-type: none">• scientific ideas• scientific techniques and procedures.	40% (current 37.5%)
AO2	Apply knowledge and understanding of: <ul style="list-style-type: none">• scientific ideas• scientific enquiry, techniques and procedures.	40% (current 35%)
AO3	Analyse information and ideas to: <ul style="list-style-type: none">• interpret and evaluate• make judgements and draw conclusions• develop and improve experimental procedures.	20% (current 27.5%)



Tiers

- Only maths, sciences and MFL
- Higher target grades 4 to 9 (6 target)
- Foundation targets grades 1 to 5
- Minimum of 20% 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



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.



Kerboodle

- <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-Dpen99Aj6aBAFMSTcERCu3JjkRovu>
- Demo of Kerboodle



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

- Look through books and discuss
- Teach me!
- Ensure they are reading
- Manage screen time
- Exercise
- Get a good nights sleep – mobiles, screens

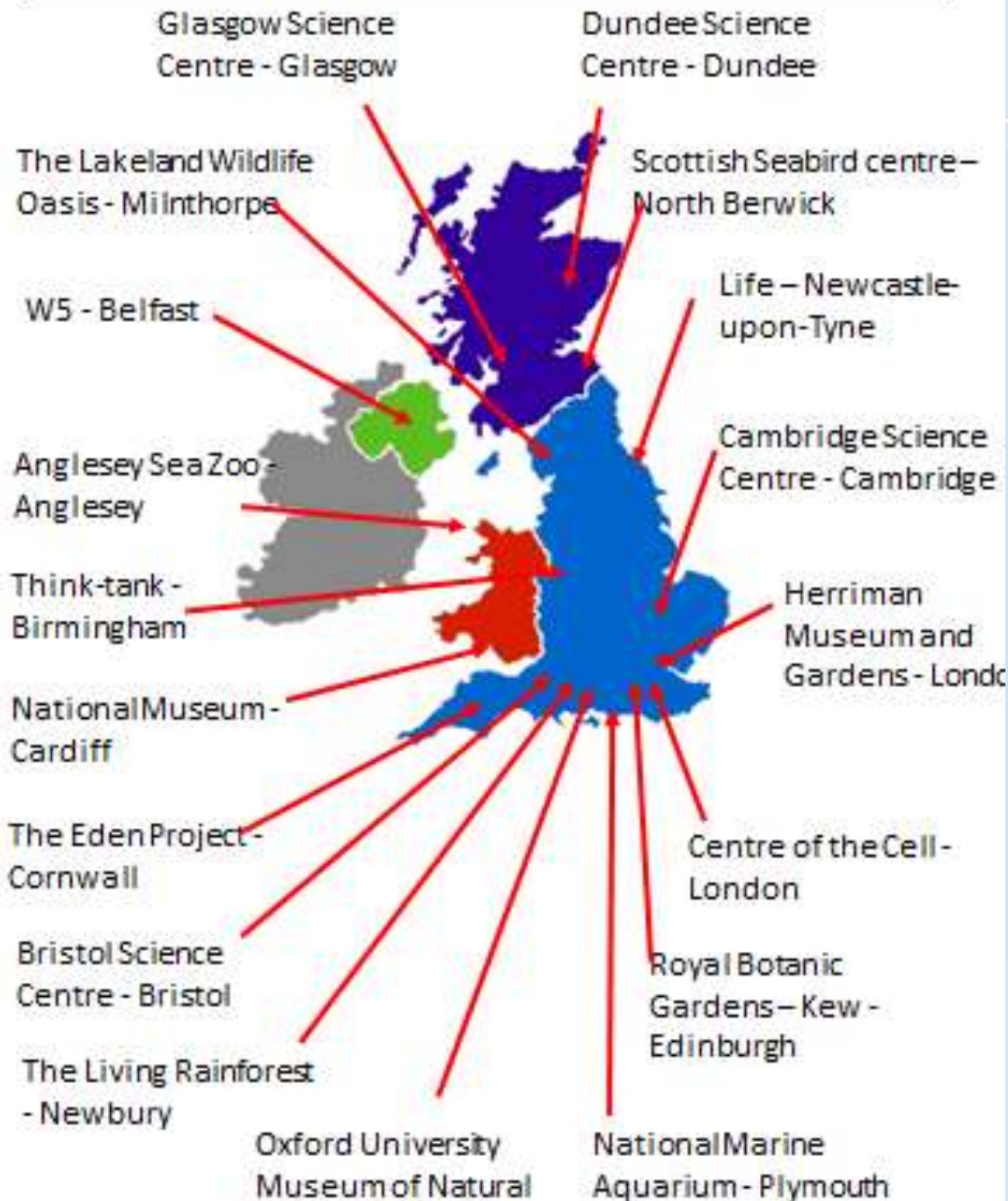


Support with science

- Online text book with Kerboodle but....
- Not endorsing any other text yet and haven't identified a revision guide
- Wider reading – Websites BBC News Science
- Books: 'The Science of Everyday Life', 'Bad Science'
- Films: Gravity
- Online videos/films: TED talks with a science theme
- Wider enrichment/experiences - visits



If you are on holiday in the UK, or on a staycation at home, why not plan a day trip to one of these :



Stress management

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

