Year 10 GCSE

Key People You Need to Know:

Mr Arnell- Deputy Headteacher

Ms. Toft – Associate Assistant Head Teacher- Head of KS4

Mr. Goddard – Head of Year 10

Ms Pask- Deputy Head of Year 10

GCSE

- Our Role
- Your Role
- Attendance needs to be 100%
- GCSE Pod and Go4schools- your child needs to register

Guide to new GCSEs- Link to full document here: http://www.claremont-high.org.uk/Curriculum/GCSE_reforms_and_new_grading_system.pdf

1. Introduction

New GCSEs in English language, English Literature and Maths will be taught in schools in England from September 2015, with the first results issued in August 2017.

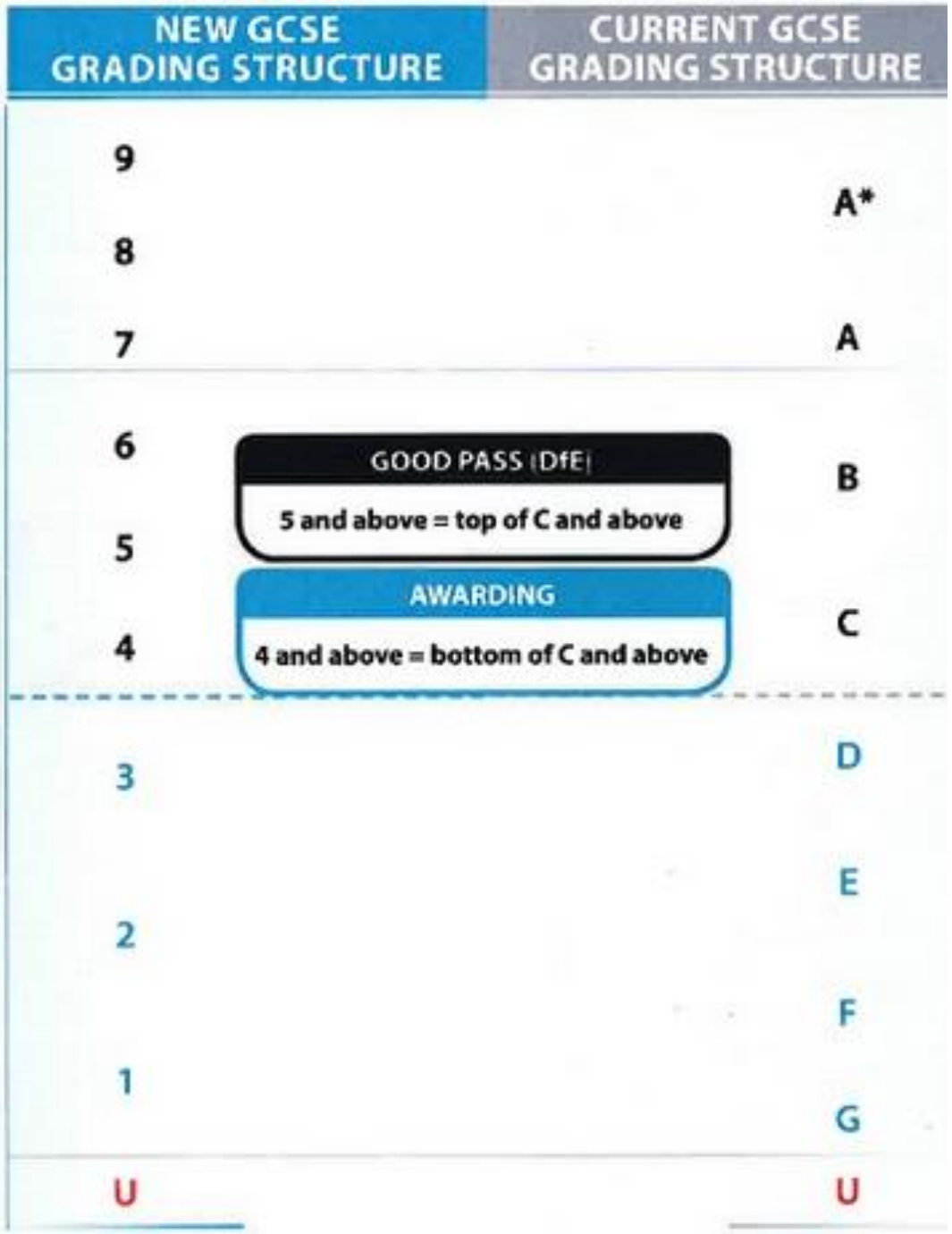
Further subjects will see new GCSEs introduced over the following two years.

2. What new GCSEs will look like?

The main features of the new GCSEs are:

- A new grading scale of 9 to 1 will be used, with 9 being the top grade.
- Assessment will be mainly by exam, with other types of assessment used only where they are needed to test essential skills.
- There will be new, more demanding content, which has been developed by government and the exam boards.
- Courses will be designed for two years of study - they will no longer be divided into different modules and students will take all their exams in one period at the end of their course.

New GCSE to be taught from:	First Results will be issued in:	Subjects	New grades from 9 to 1
September 2015	Summer 2017	English Literature English Language Mathematics	Yes
September 2016	Summer 2018	Geography History Biology Chemistry Physics Combined Science Modern Foreign Languages Religious Studies Product Design Graphics Hospitality and Catering (equivalent Level ½ course) Art and Design Drama Music Physical Education Computer Science	Yes
September 2017	Summer 2019	All other GCSE subjects taught from this point will be new, with the current ones withdrawn. Exam boards will have to meet new rules for content and design when deciding which subjects to offer.	Yes


NEW GCSE GRADING STRUCTURE
CURRENT GCSE GRADING STRUCTURE
9
A*
8
7
A
6
GOOD PASS (DfE)
5 and above = top of C and above
B
5
AWARDING
4 and above = bottom of C and above
C
4
3
D
E
2
F
1
G
U
U

What this means for our curriculum at Claremont:

- We are currently getting students used to the new grading system in English and Maths.
- Students will be receiving mock exam and assessment results in grades on the 9-1 scale.
- Intervention and booster classes will focus on moving students towards their aspirational targets on the 9-1 scale.

Year 10 Mathematics

Start of GCSE Course

Subject Content

For all GCSE Mathematics syllabuses the National curriculum programmes of study and associated statements form the subject content. In practice, this involves the study of Mathematics under the headings of

- Statistics and Probability
- Number and Algebra
- Geometry
- Ratio and Proportion and Rates of Change.

In all of these strands, there is now a greater focus on problem solving.

Year 10

- In the summer term of Year 9, students sit a baseline test which helps us to decide the grade they are working at and which tier of entry would be best for that group.
- In Year 10, students start the scheme of work designed to give them the knowledge and the skills required for their tier of entry.

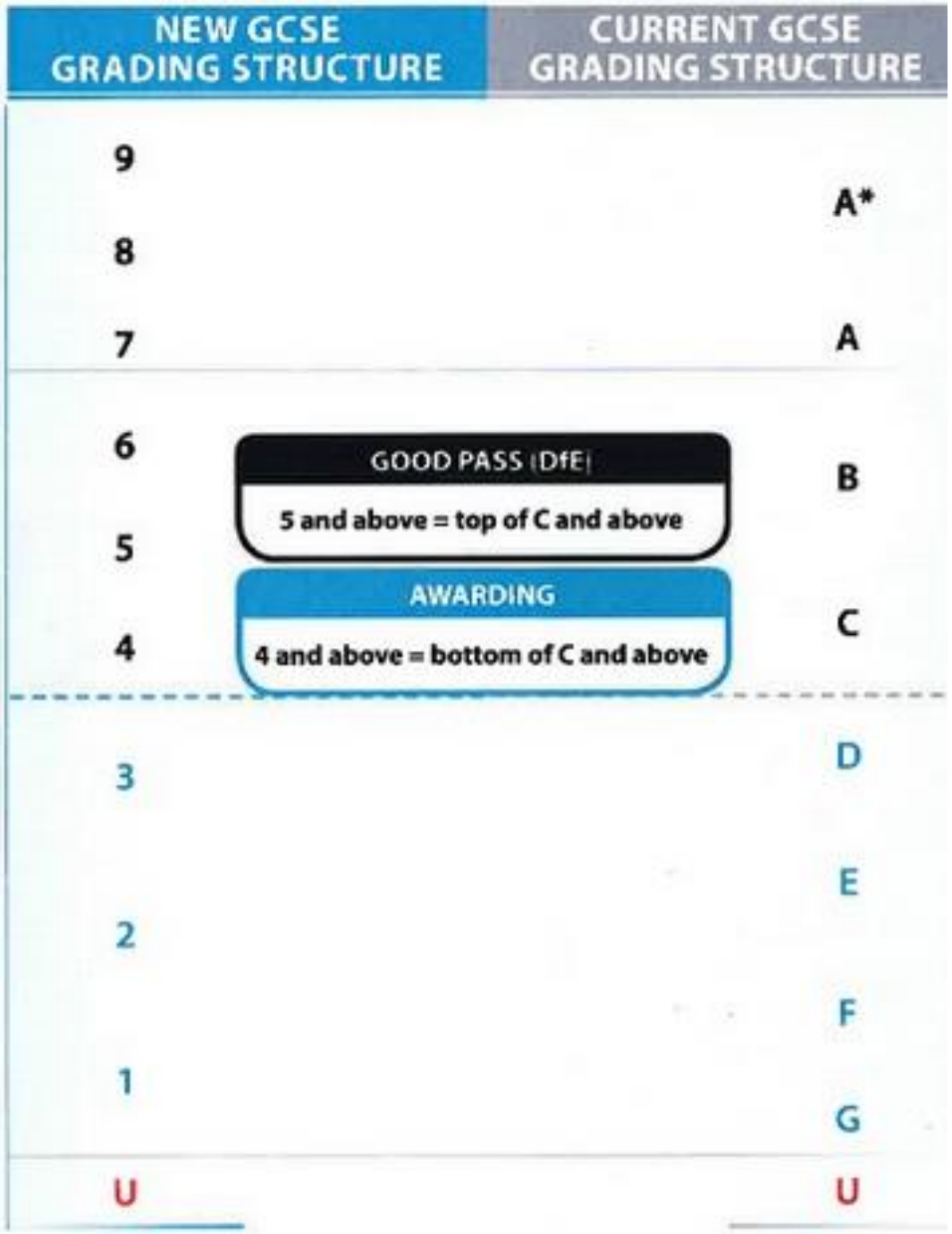
Changes to the GCSE of Summer 2018

- **Grading Systems**
- One of the big changes will be the grading system for pupils, which now goes from a Grade 1 (the lowest grade) up to a Grade 9 (the grade awarded to the top 3% of pupils only.)

- This is a 2-Tier GCSE Course and can be taken at both Foundation and Higher level. The new grade 5 is counted as a good pass and is roughly equivalent to a C+/B-. (This is achievable at either tier.)

New Grading System (1-9)

9 = A* +	**8** = A*-	**7** = A	**6** = B+	**5** = B-
4 = C	**3** = D	**2** = E	**1** = F/G	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Higher Vs Foundation

- The new foundation paper contains more content and difficulty than before, such as reverse percentages and simultaneous equations and will now be suited to a greater number of pupils than before.
- The higher tier also now contains more content, including functions, Venn diagrams, geometric progressions and gradient of a point on a curve.
- The wording of the questions in higher tier is far more difficult and requires more interpretation than foundation.

Exam entry level	GCSE grades available
Foundation tier	1-5
Higher tier	4-9 (allowed a Grade 3)

The specification: new assessment objectives

AO1: Use and apply standard techniques

- (50% Foundation, 40% Higher)

AO2: Reason, interpret and communicate mathematically

- (25% Foundation, 30% Higher)

AO3: Solve problems within mathematics and other contexts

- (25% Foundation, 30% Higher)

- More emphasis on problem-solving, communication, proof, interpretation

Type of Questions:

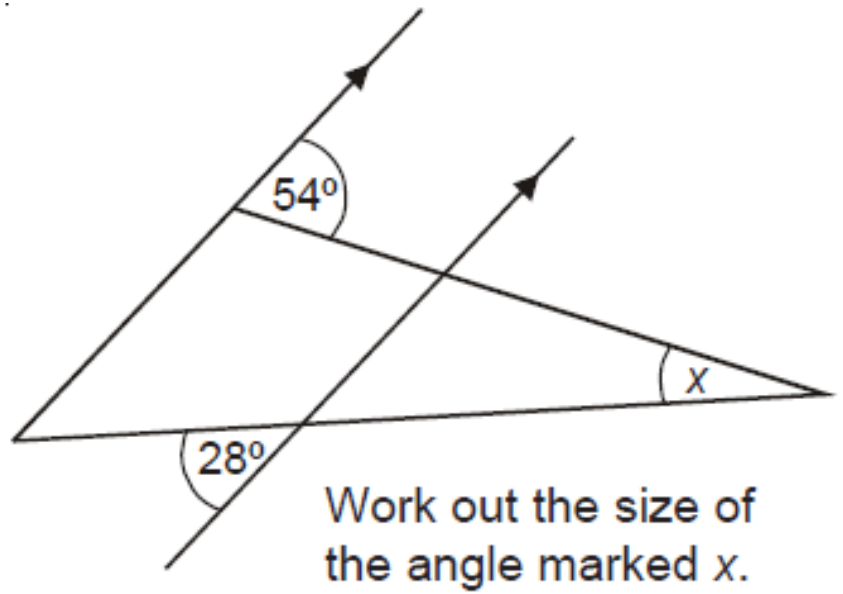
- A01: Straightforward questions:

Eg: Factorise 3x – 12

- A02: Where there is more than one way to approach the question, less straight forward

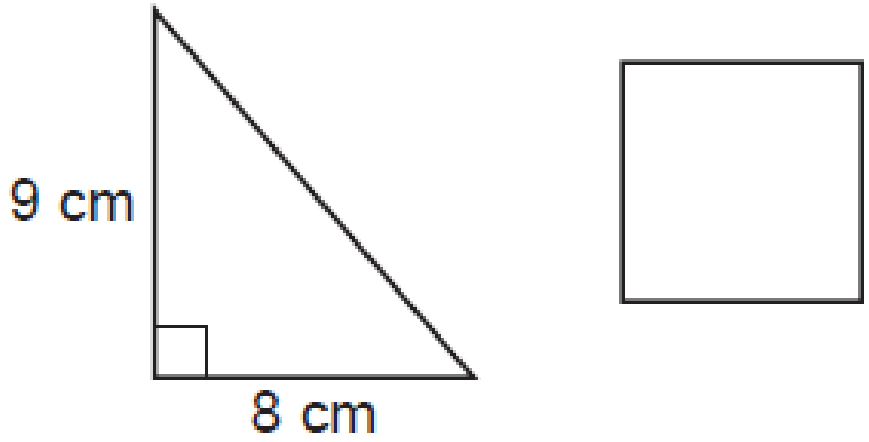
Eg:

eg →



- A03 Questions: Less straightforward, there is a problem to be solved.

Eg:



The area of the triangle is the same as the area of the square.

Work out the **perimeter** of the square.

Structure of the Exam

Six content areas:	F	H
Number	25%	15%
Algebra	20%	30%
Ratio, proportion, rates of change	25%	20%
Geometry	15%	20%
Probability & Statistics	15%	20%

Three written papers: each contributes 33.3% of the final grade.

Each paper is worth 80 marks and is 1 hour and 30 minutes.

Paper 1 is a non calculator paper and Papers 2 and 3 require a calculator.

Overview of content and percentage it features in both tiers.

	Foundation	Higher
Number	25%	15%
Algebra	20%	30%
Ratio, proportion and rates of change	25%	20%
Geometry	15%	20%
Statistics and Probability	15%	15%

Higher Tier, Term One Assessment Tracker

My Target Grade

First Exam 2017

Topic 1	Objectives For the purpose of self-evaluation, highlight those objectives that need revision
Number	**Rounding and Estimation** • Round to a given number of significant figures (90) [Grade 3] • Estimate answers to calculations such as $\frac{22.6 \times 18.7}{5.2}$ • Estimate answers to calculations such as $\frac{22.6 \times 18.7}{0.52}$ (91 and 92) [Grade 3]
	Rounding and Bounds • Find min. and max. values. (132) [Grade 4] • Upper & Lower Bounds (206) [Grade 8/9] • Calculating the Upper & Lower Bound of a calculation involving compound units or functional contexts (206) [Grade 8/9]
	Indices and Standard Form • Convert between numbers in ordinary and standard index form (with and without a calculator) (83) [[Grade 3] • Use index notation and index laws for positive and negative powers such as $w^3 \times w^5$ and $w^5 \div w^7$ (131) [Grade 3] • Use index notation and index laws for positive and negative powers such as $3w^3y \times 2w^5y^2$ and $8w^2z$. (154) [Grade 5] $2w^3z^2$ (188) [Grade 7] • Use index notation and index laws for negative powers such as 16^{-1} (29, 82 154) [Grade 6] • Use index notation and index laws for fractional powers such as $16^{\frac{1}{4}}$ (29, 82 and 188) [Grade 7]

Assessment Result _____% Grade _____

Below target  On Target  Above Target 

Revision Aids

- www.mymaths.co.uk

(school username and password needed)

Username: claremont

Password: prime

- Revision Books will be purchased by the school at the start of year 10 (£4 donation by parents.)

New Science GCSEs

. From September 2016, there are 4 GCSE qualifications in science that students can take:

	GCSE (9-1) Biology	
GC		
GC	GCSE (9–1) Chemistry	GCSE (9-1) Combined Science (Double Award)
GC		
	GCSE (9–1) Physics	

- There will be a new **9–1** grading system, replacing A*–G:
  Foundation tier will cover grades 1–5
  Higher tier will cover grades 4-9.

- There are **no controlled assessments** in the new qualifications. Pupils must complete core practicals in class instead

- Questions assessing students' use of **mathematical skills** will make up at least 15% of the assessments.

- There will be 19 physics equations that must be recalled and applied

Specification reference	Equation
2.6b	distance travelled = average speed × time
2.8	acceleration = change in velocity ÷ time taken $a = \frac{(v-u)}{t}$
2.15	force = mass × acceleration $F = m \times a$
2.16	weight = mass × gravitational field strength $W = m \times g$
2.24	**momentum = mass × velocity** $\boldsymbol{p = m \times v}$
3.1 and 8.8	change in gravitational potential energy = mass × gravitational field strength × change in vertical height $\Delta GPE = m \times g \times \Delta h$
3.2 and 8.9	kinetic energy = $\frac{1}{2}$ × mass × (speed)^2 $KE = \frac{1}{2} \times m \times v^2$
3.11 and 8.15	efficiency = $\frac{(\text{useful energy transferred by the device})}{(\text{total energy supplied to the device})}$
4.6	wave speed = frequency × wavelength $v = f \times \lambda$
	wave speed = distance ÷ time $v = \frac{x}{t}$

Teaching Format

- Triple Science: 5 periods per science (15 periods per fortnight)- 3 teachers
- Combined Science: 10 periods of science divided by 2 or 3 teachers

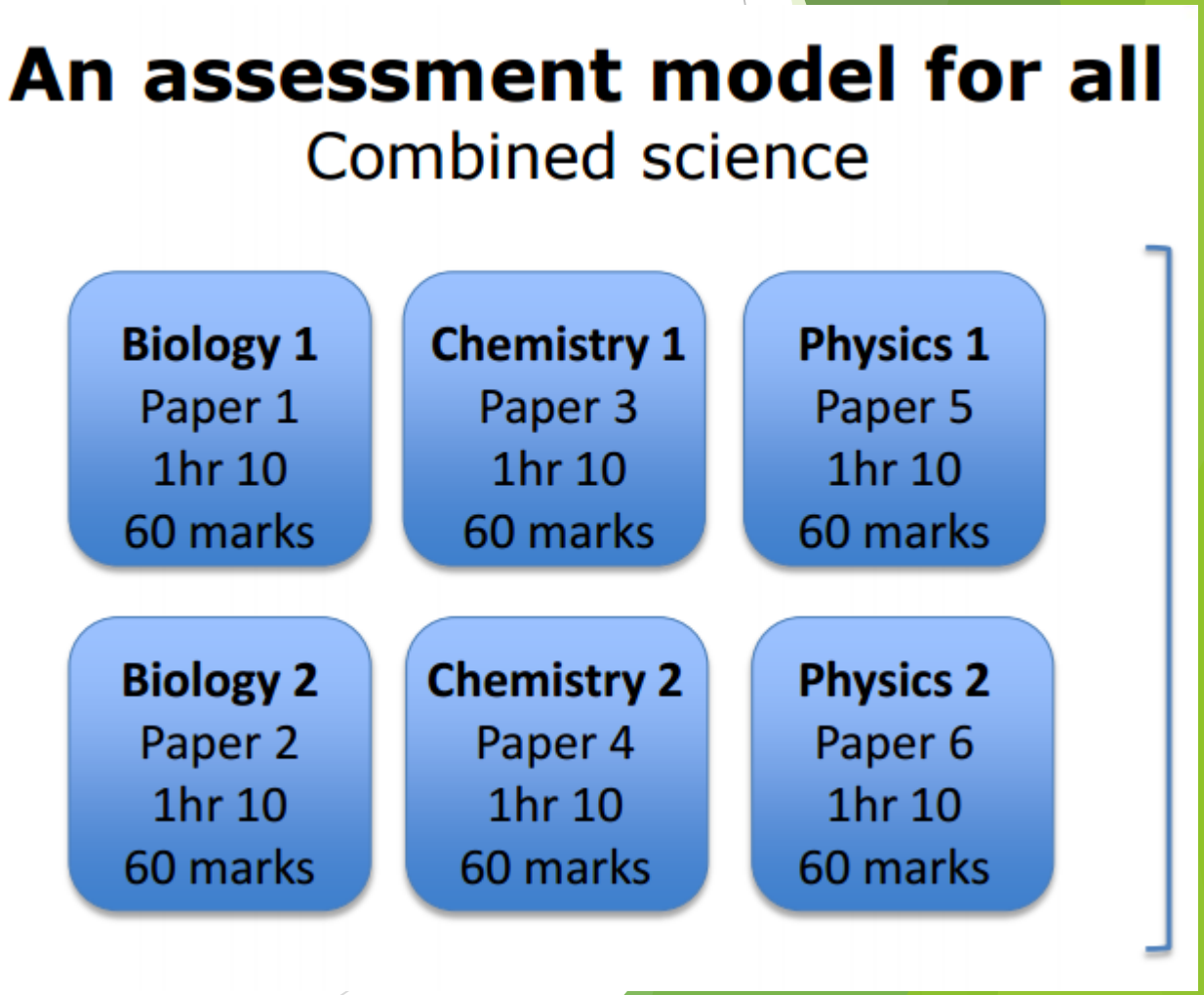
The exams (combined science)

- First assessment: May/June 2018.

- The assessment consists of six questions (all higher or foundation)

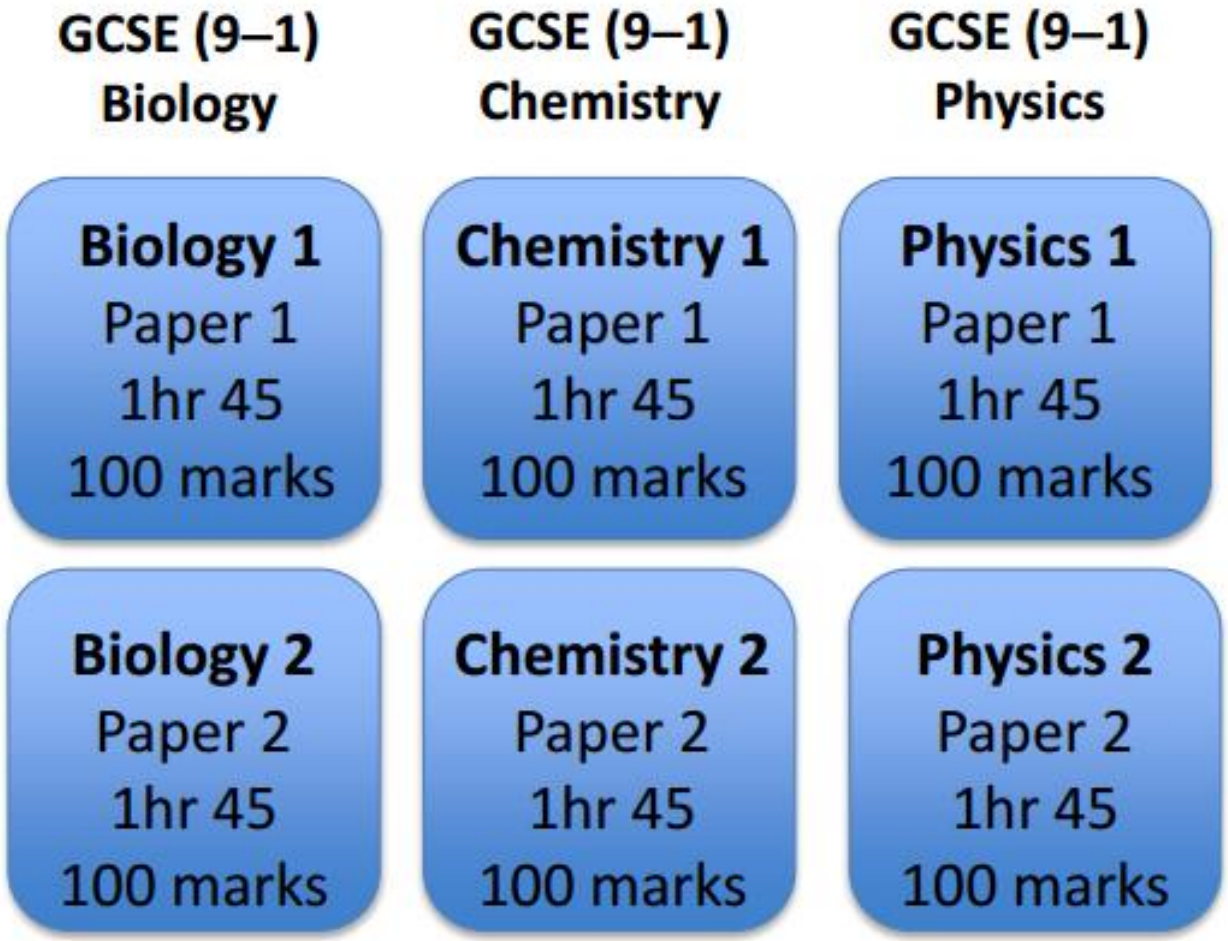
- The paper will include multiple-choice, short answer questions, calculations and extended open-response questions.

- Calculators may be used in the examination.



- As it’s a double award qualification, students will receive two grades. These grades could be the same number, e.g. 6, 6 or 7, 7. However, some students may receive a grade with adjacent numbers, e.g. 6, 7. This will signify a student who is at an intermediate point between the standard required for a 6, 6 grade, and the standard required for a 7, 7 grade.

- Each science can be higher or foundation



How we will help your child

- Every child will receive access to a free online textbook with questions and interactive exercises that they can use for the entire course
- Every child will be able to purchase a discounted revision guide
- Every child will take a Year 10 exam which will be marked externally by examiners

How you can help your child

- Students should be doing at least 2 pieces of science homework a week- please check they are doing it!
- If they don't have homework they should be memorising key words and formulae, making flash cards, mind maps and using the active book to revise.
- Students must take good care of all their notes from Yr9-11 as there will be a lot to revise at the end of Year 11!

How you can help us

- Please contact your childs teacher with any questions or concerns
- Please let me know if you have any contacts who can help with STEM enrichment at the school

- http://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/teaching-and-learning-materials/GCSE-9-1-Sciences-guide-for-parents.pdf
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AQA GCSE English

New Specification:
First Exam 2017

The Big Change
100% exam based

AQA English Language

- Paper 1: Explorations in Creative Reading and Writing
- Paper 2:
- Writers' Viewpoints and Perspectives

- Both Exams
- 1 hour 45 each
- 80 marks each
- 50% of GCSE each

AQA English Literature

Paper 1: Shakespeare and the 19th Century novel

- Exam = 1hr 45
- 64 marks
- 40% of GCSE

Paper 2: Modern texts and poetry

- Exam = 2 hrs 15
- 96 marks
- 60% of GCSE

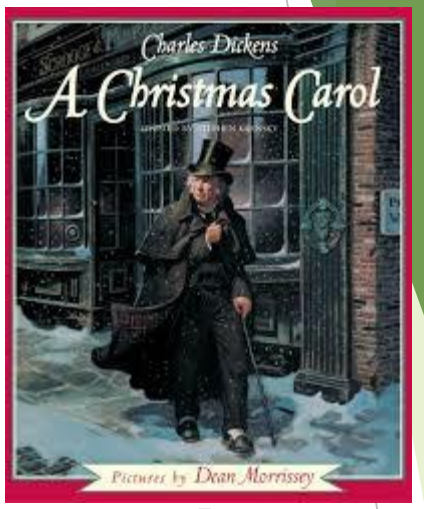
Outline of the year 10 course for English at Claremont High

- Autumn term – **Lord of the Flies and Language paper 1**
- Spring term – **Language paper 2, introduction to unseen extracts from 19th /20th century literature**
- Summer term - **Lit paper 2 modern text and poetry. Also revisit Christmas Carol**

What students should be doing after they complete their h/w?

1. **read 19th, 20th and 21st century texts**
2. **identify language techniques and the effect on the reader**
3. **refine** work to improve grade

Other Useful Resources



- BBC Bitesize
- Study guides
- Texts – A Christmas Carol, Lord of the Flies, Macbeth