Ravina has a large number of coins in a jar.

All the coins in the jar are 50p coins.

She wants to find an estimate for the total amount of money in the jar.

Ravina takes a sample of 50 coins from the jar and marks each one with a marker.

She then puts the coins back into the jar.

Ravina then shakes the jar.

She now takes a sample of 30 coins from the jar and sees that 12 of them are marked.

Work out an estimate for the total amount of money in the jar.

# Welcome to the Key Stage 4 Core Curriculum Evening



#### By the end of the evening you will:

- have gained an understanding of the Key Stage 4 core curriculum and the GCSE reforms
- have gained an understanding of how best to support your child so that they achieve or exceed their targets
- know key dates and events during this year



Introduction by Mr Smith, *Director of Outcomes*Presentation by Mr Dyer, *Director of Mathematics and Numeracy* 

Presentation by Miss Bull, Second in English Presentation by Mr Booth, Head of Science Question and Answer session



# Director of Learning Mr A Dyer



A Year 11 Chamberlayne mathematician is somebody who:

Can retain topic content and utilise key skills to understand and complete ability-appropriate GCSE tasks; is prepared to enter the next phase of their education/training fully skilled at their level to utilise their learnt mathematics across subject areas; can enter the adult world confident in their ability to complete both concrete and abstract tasks; can work independently with ease and whose oracy skills are highly developed

- Exam board Edexcel
- Mathematics GCSE 9-1 (from 2015)
- 4 lessons every week + intervention lesson for all every Tuesday/Friday after school

(Year 11 only)

 Students are taught in attainment sets throughout Key Stage 4 and can be moved following assessment and data reviews. Set 1 aims for Higher Tier entry, sets 2, 3 and 4 aim for Foundation Tier entry

```
Tiers of entry
```

Higher – GCSE grades 4 – 9

Foundation – GCSE grades 1 – 5

Students, whose attainment falls in the 4/5 section, could be entered for either tier Students are not allowed to enter for both tiers (the examinations for both tiers are held simultaneously)

3 examination papers of 90-minute duration – one non-calculator, two calculator. The entire syllabus could be tested but, in practice only some of it is

To prepare thoroughly for this we need 3 years – hence starting in Year 9

Homework



Assessment throughout the course:

Years 9 and 10

End of Unit tests

(see Chamberlayne College website for details of content)

End of Year tests

Year 11

Frequent past paper tests including walking-talking mocks leading to projected grade for June examinations

#### Sample questions Higher Tier

*D* is directly proportional to the cube of *n*.

Mary says that when *n* is doubled, the value of *D* is multiplied by 6

Mary is wrong. Explain why.

Prove that

 $(2n+3)^2 - (2n-3)^2$  is a multiple of 8 for all positive integer values of n.

Ravina has a large number of coins in a jar.

All the coins in the jar are 50p coins.

She wants to find an estimate for the total amount of money in the jar.

Ravina takes a sample of 50 coins from the jar and marks each one with a marker.

She then puts the coins back into the jar.

Ravina then shakes the jar.

She now takes a sample of 30 coins from the jar and sees that 12 of them are marked.

Work out an estimate for the total amount of money in the jar.

Asha is driving on the motorway.

The motorway is closed between junctions 10 and 11

She leaves junction 10 as there is a diversion. She drives 16 miles due East to Penn.

From Penn she drives on a bearing of 340° for 22 miles until she reaches junction 11

She drives at 60 miles per hour on this diversion.

Assuming that Asha would have driven at 70 miles per hour along the motorway, how many minutes will driving along the diversion add to her journey?

Year 9

Unit tests (Foundation 9 tests, Higher 7 tests)

The final assessment is cumulative

Year 10

Unit tests (Foundation 5 tests, Higher 8 tests)

The final assessment is a cumulative assessment for all units to date

Year 11

Past paper tests approx. twice per half term some of which will be walking/talking mocks

Class March 2013 - Higher Non-Calculator Teacher	Decimal Multiplication	Scatter Diagrams and Correlation	Questionnaires	Plotting Linear Graphs	Linear Sequences	Conversion Graphs	Simplify and Solve Linear Equations	Lowest Common Multiples	Index Laws	Angle Rules	Percentage Calculations	Ratio	Angles in Polygons
	3	4	3	4	3	5	4	3	4	4	5	4	3
Student A	1	1	3	4	0	1	0	0	1	2	5	0	0
Student B	3	4	3	4	3	1	4	0	4	4	5	4	3
Student C	3	2	3	4	2	5	4	3	4	0	3	4	3
Student D	1	4	2	4	2	1	4	3	2	2	0	0	0
Student E	3	4	3	4	2	3	4	3	3	0	0	4	1

Example of a question-level analysis spreadsheet

#### Mathematics Past Paper Feedback

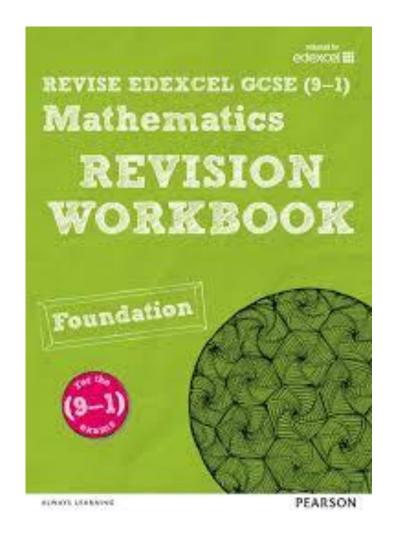
Paper: March 2013 - Higher Non-Calculator

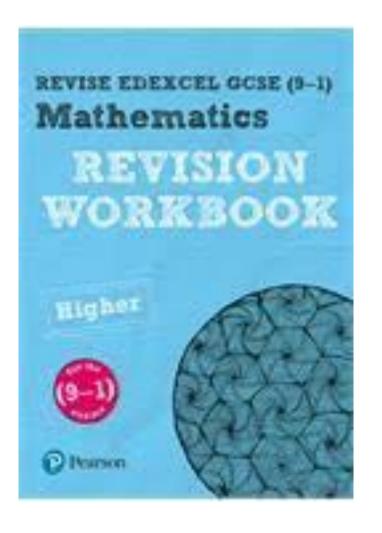
Name: Student A

Teach: Teacher

Q	Topic		Tick
1	Decimal Multiplication	13	
2	Scatter Diagrams and Correlation	14	
3	Questionnaires	33	
4	Plotting Linear Graphs	44	
5	Linear Sequences	03	
6	Conversion Graphs	15	
7	Simplify and Solve Linear Equations	04	
8	Lowest Common Multiples	03	
9	Index Laws	14	
10	Angle Rules	24	
11	Percentage Calculations	55	
12	Ratio	04	
13	Angles in Polygons	03	

Example of a student QLA printout showing topic ability and focus for intervention





The school will provide these to students during the course of the autumn term In Year 11

ISBN 9781447987925

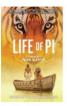
ISBN 9781292210889











#### English

### Director of Learning Ms J Cole Second in English Miss Bull















## **English Language and English Literature GCSE**

Students are taught the skills of written and spoken communication, analysis and critical thought through the study of challenging and engaging texts.



'Good readers make good writers.' Miss Bull, September 2018



#### **English and English Literature GCSE**

- Exam board AQA
- English Language and English Literature reformed GCSE (9-1 grading)
- 4 lessons every week
- Students are taught in attainment sets.

GCSE
ENGLISH
LANGUAGE
BOOS

Sender
The send of regulation (100 columns)
To send of regulation (100 columns)
To send of regulation (100 columns)
The send of reg



#### **English Language GCSE**

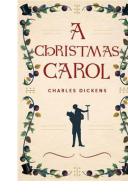
- Paper 1- Explorations in Creative Reading and Writing (50%):
  - Section A: Reading (one literature text)
  - Section B: Writing (descriptive or narrative writing)



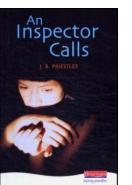
- Paper 2- Writer's Viewpoints and Perspectives (50%):
  - Section A (one non-fiction text and one literary non-fiction text)
  - Section B (writing to present a viewpoint)
- Non-examination Speaking and Listening Assessment



#### **English Literature GCSE**



- Paper 1 Shakespeare and the 19<sup>th</sup> century novel (40%):
  - Section A: Shakespeare ('Macbeth')
  - Section B: 19th century novel ('A Christmas Carol')
- Paper 2- Modern texts and poetry (60%):
  - Section A: Modern prose or drama ('An Inspector Calls')
  - Section B: Poetry (Love and Relationships)
  - Section C: Unseen Poetry





#### Your teachers will...

- Fully prepare you for all your exams.
- Set relevant and engaging homework.
- Complete internal assessments every half term.
- Complete regular mock exam papers.
- Track your progress on the PIXL QLA and make the data available for you.
- Ensure you know your strengths and areas to improve.
- Prepare and deliver additional after school Enrichment sessions (Year 11)
- Liaise with Learning Support, Heads of Character and Culture, Pastoral Leaders etc. to support you with any issues that may arise.

#### In return, you need to:

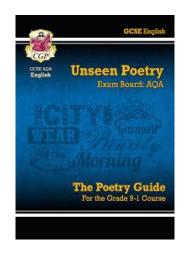
- Read and re-read the set texts.
- Complete homework tasks these will enhance your learning and give you more opportunities to practice new skills.
- Read a range of texts: fiction, non-fiction, novels, poetry, newspapers, magazines, blogs, online articles etc.
- Attend school as much as possible.
- Engage in lessons, challenge yourself, be resilient.
- Ask your teacher for help.

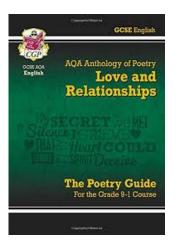
#### Where to get help?

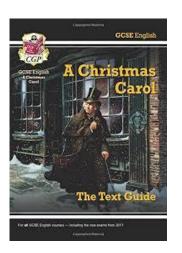
#### Websites:

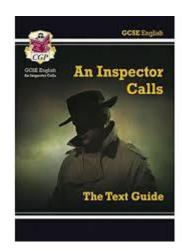
BBC Bitesize - <u>www.bbc.co.uk/schools/gcsebitesize-</u> search english / english literature

#### **Revision guides:**











#### Science

# Director of Learning Mr K Booth



### Our philosophy: science for all AQA



- We believe that science has something to offer every student. That's why we have a GCSE qualification for Key Stage 4 – to suit students of all abilities and all aspirations.
- The subject content and required practical's in this specification are also in the separate GCSE Biology, Chemistry and Physics. So you have the flexibility to co-teach and potentially move our students between courses if it is suitable to do so.

#### **Assessments**

• There are **SiX** papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.

#### How it's assessed

#### Each paper:

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7 % of GCSE
- Multiple choice, structured, closed short answer, and open response.
- Maths requirement Biology 10%, Chemistry 20% and Physics 30%

#### **Assessment Objectives**

#### • AO1 - 40%

Recall of scientific facts, figures, equations, processes or events.

#### • AO2 - 40%

Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.

#### • AO3 - 20%

Analyse information and ideas to: interpret and evaluate; make judgments and draw

conclusions; develop and improve experimental procedures.

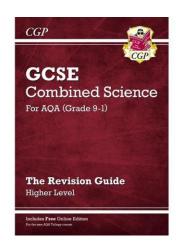
#### **Practical Science**

- There's no better way to learn about science than through purposeful practical activities as part of day to day teaching and learning. AQA offer 21 required practicals:
- A good practical experience will give students the skills to capitalise on the 15% of practical-related marks available in the science exams.
- You can find more support and guidance for carrying out practical work on the AQA website,
  - http://www.aqa.org.uk/resources/science/gcse/teach/practicals on our dedicated 'Practical's' page:

#### **Preparing for exams**

- Visit <a href="mailto:aqa.org.uk/8464">aqa.org.uk/8464</a> for everything you need to prepare for our exams, including:
  - past papers, mark schemes and examiners' reports
  - specimen papers and mark schemes for new courses
  - literacy and numeracy support

#### **Revision Guides and Course Materials**

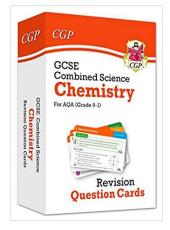


#### **Advised Purchase**

CGP GCSE Combined Science for AQA (Grade 9-1) Higher/Foundation

RRP £9.95

School £5.50



CGP GCSE Combined Science for AQA (Grade 9-1) Revision Question Cards

RRP £5.99 x 3 Sciences

School £3.00 x 3 Sciences

(Available for order from the school website)