Sawston Village College

Year 10 Information Evening

Erika Wagstaff, Assistant Principal

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Outline of the Evening

6:00pm	Introduction
6:05pm	Support for GCSE English
6:15pm	Support for GCSE Maths
6:25pm	Support for GCSE Science
6:35pm	Key messages and dates for the year

GCSE English: how to help prepare your teenager

The reality

The dream

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English Language - (the English sixth form prospectuses refer)

Paper 1 Exploration of creative reading and writing

Insert: a section of a short story or novel (reading age of an adult)

Four reading questions - different structures needed

Writing task is to write a short story in 45 minutes.

Paper 2 - Writers' viewpoints and perspectives

Insert: two non-fiction texts. One twentieth or twenty first century text and one text from pre-twentieth century (difficult reading)

- Four reading questions (two of them comparative)
- Writing task is to write a persuasive piece either article or letter or speech.

English Literature

Paper 1 - Shakespeare and Pre-twentieth century novel exam
1 hour 45 minutes

Paper 2 - Modern novel and poetry exam
2 hours and 15 minutes

No texts are allowed in the exam

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Being a fluent reader is crucial to success in English. Being able to read 250 words per minute in silence and to comprehend what is being read (the vocabulary adults texts will include) will enable students to reach the top grades. The passages in both English Language exams are unseen so students need to be confident, well read readers.

Reading for at least 20 minutes a day for pleasure (fiction as well as non-fiction) is THE best way to prepare your children for these exams.

Use the top 20 book list for brilliant, engaging books - there are ten copies of each in the school library.

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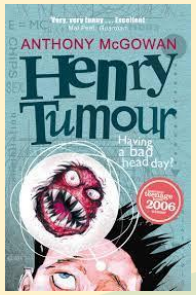
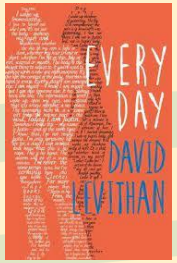
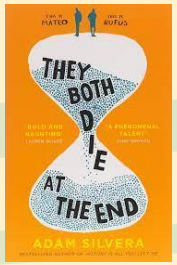
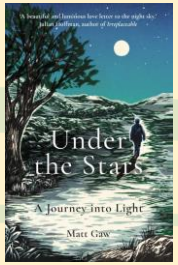
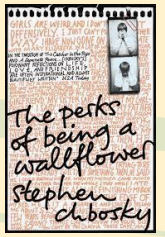
Y10 **Top 20** book list:

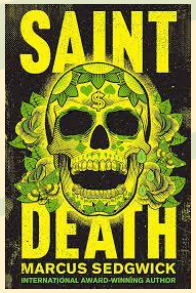


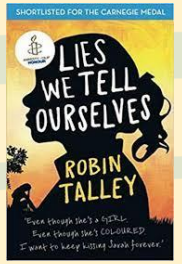


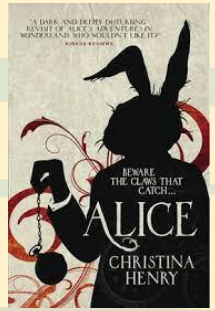


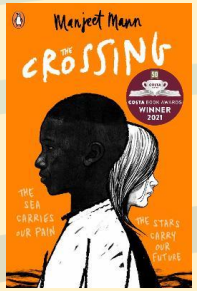


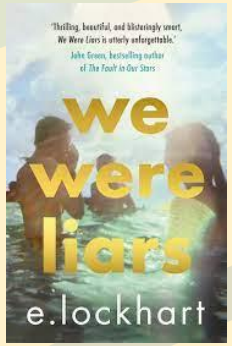


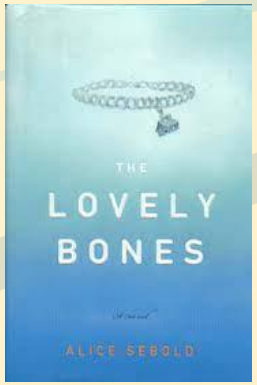


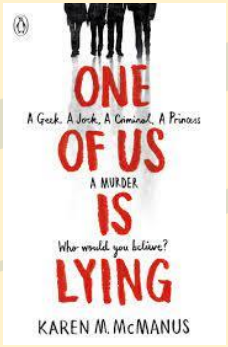


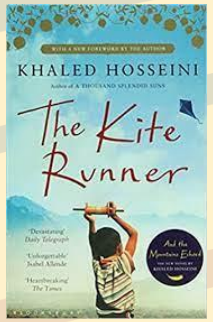


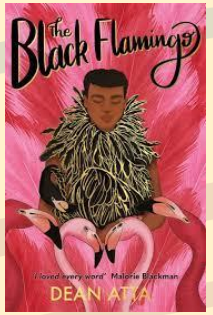


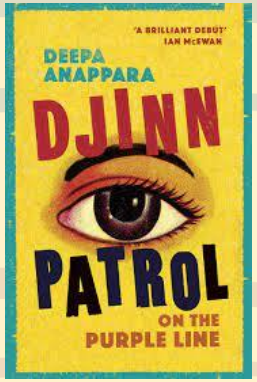












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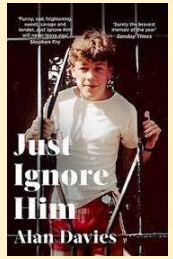
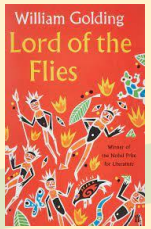
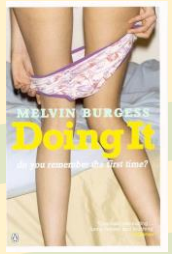
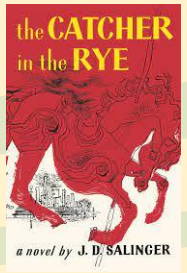
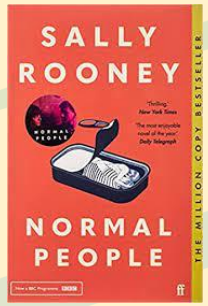


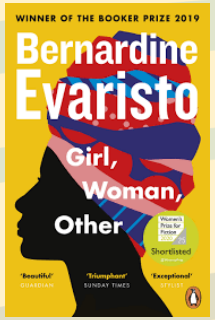


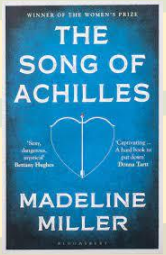


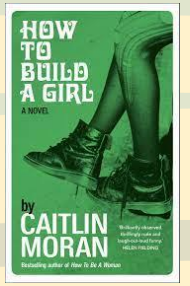


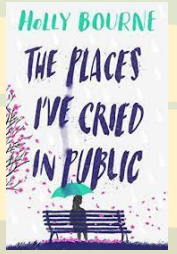


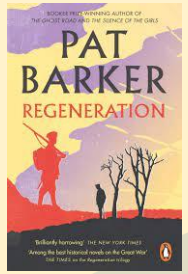
Y11 **Top 20** book list:

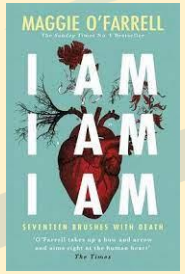


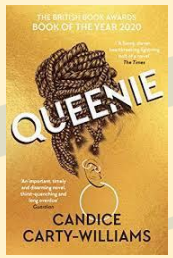


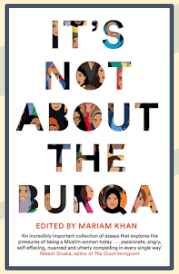


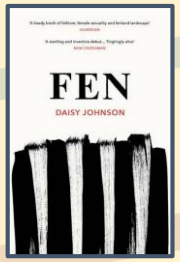


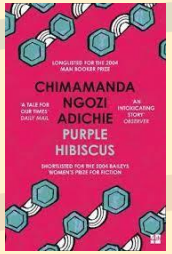


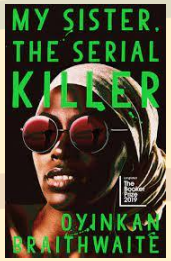


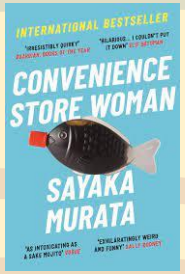












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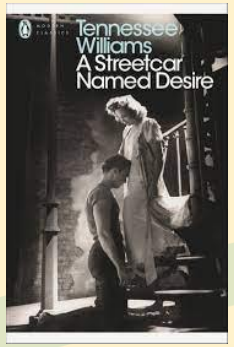
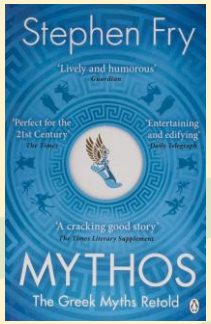
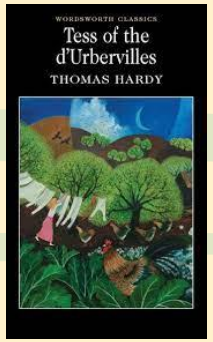
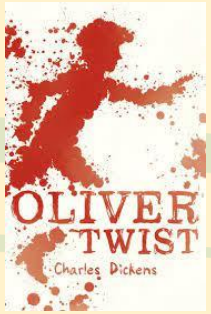
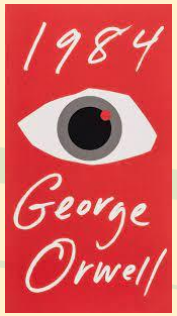
Y11 'so you want to study English Literature at sixth form' book list:

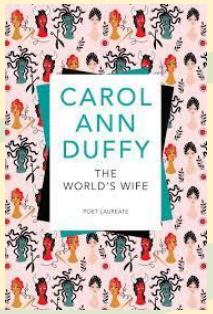


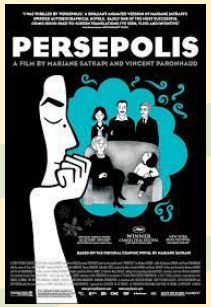


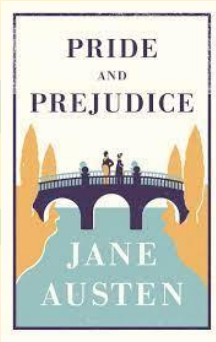


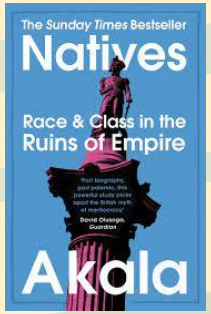


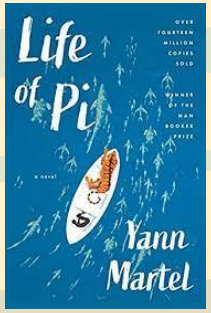


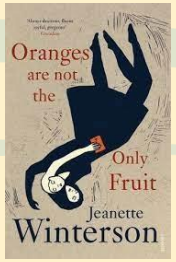


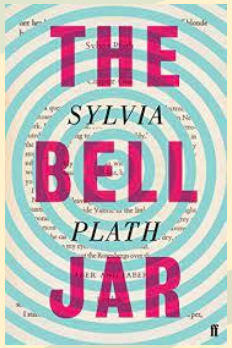


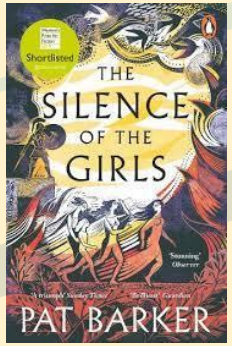


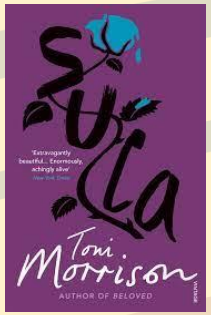


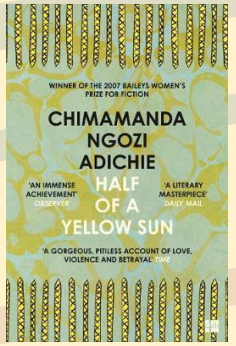


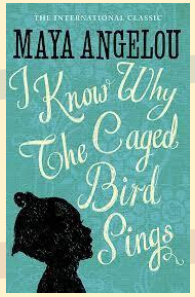


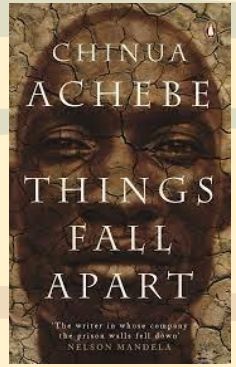












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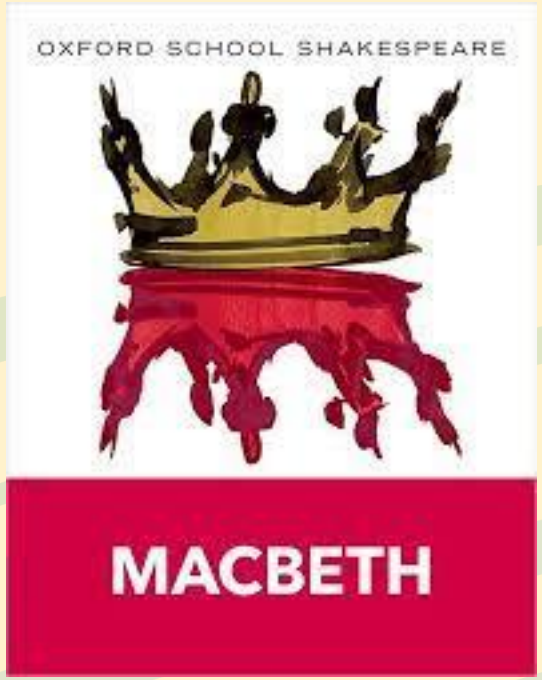
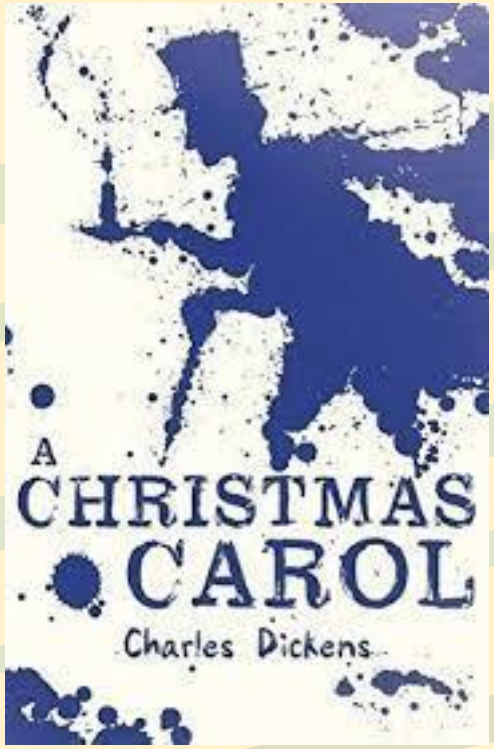
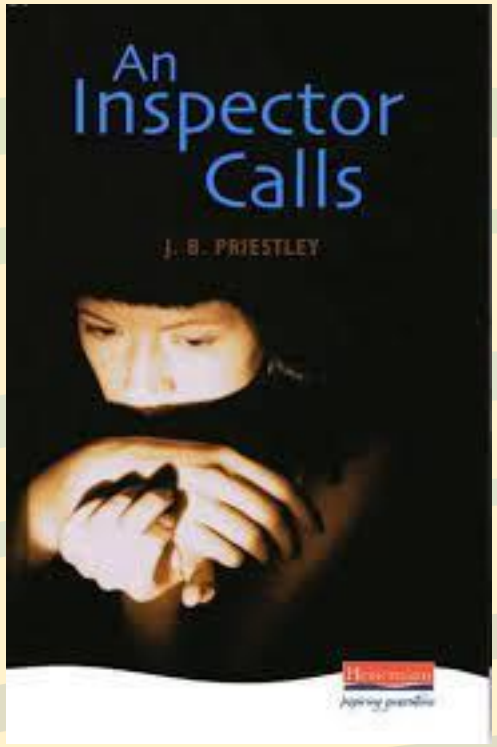
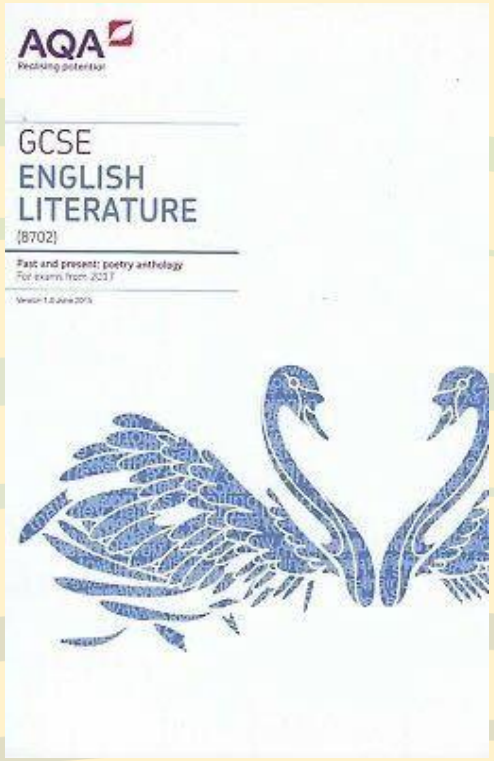
GCSE English Literature texts:









Autumn Term Y10

Spring Term Y10

Summer Term Y10

15 poems

Autumn Term Y11

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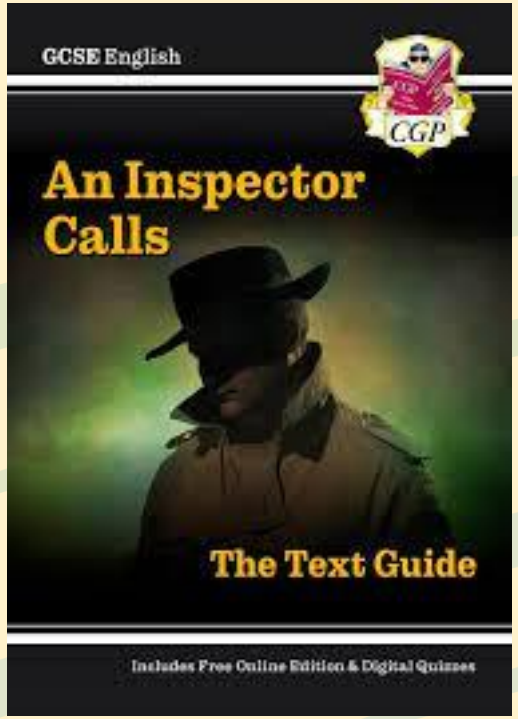

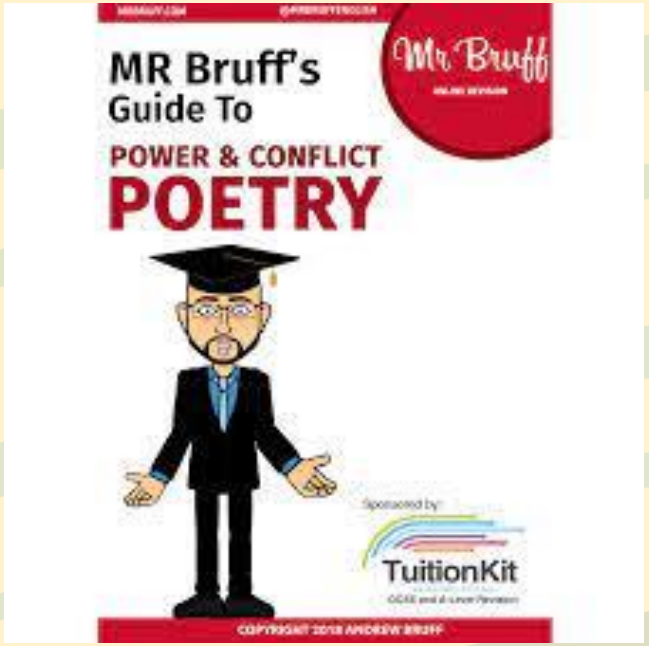

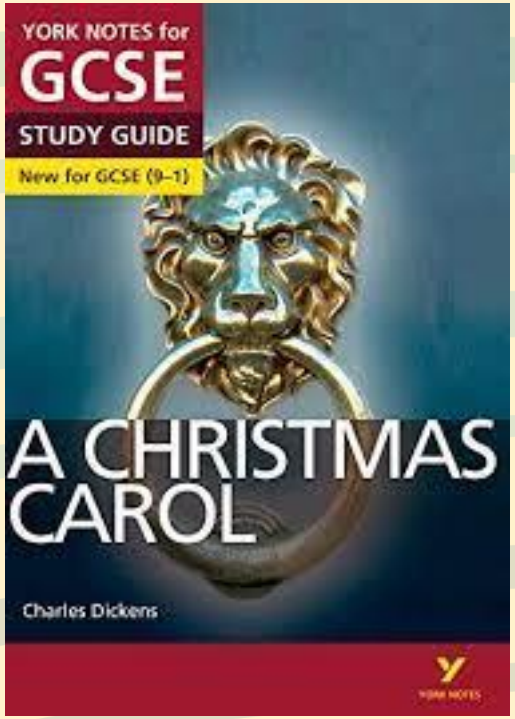

Lots of study guides out there which are useful but only if they are used.

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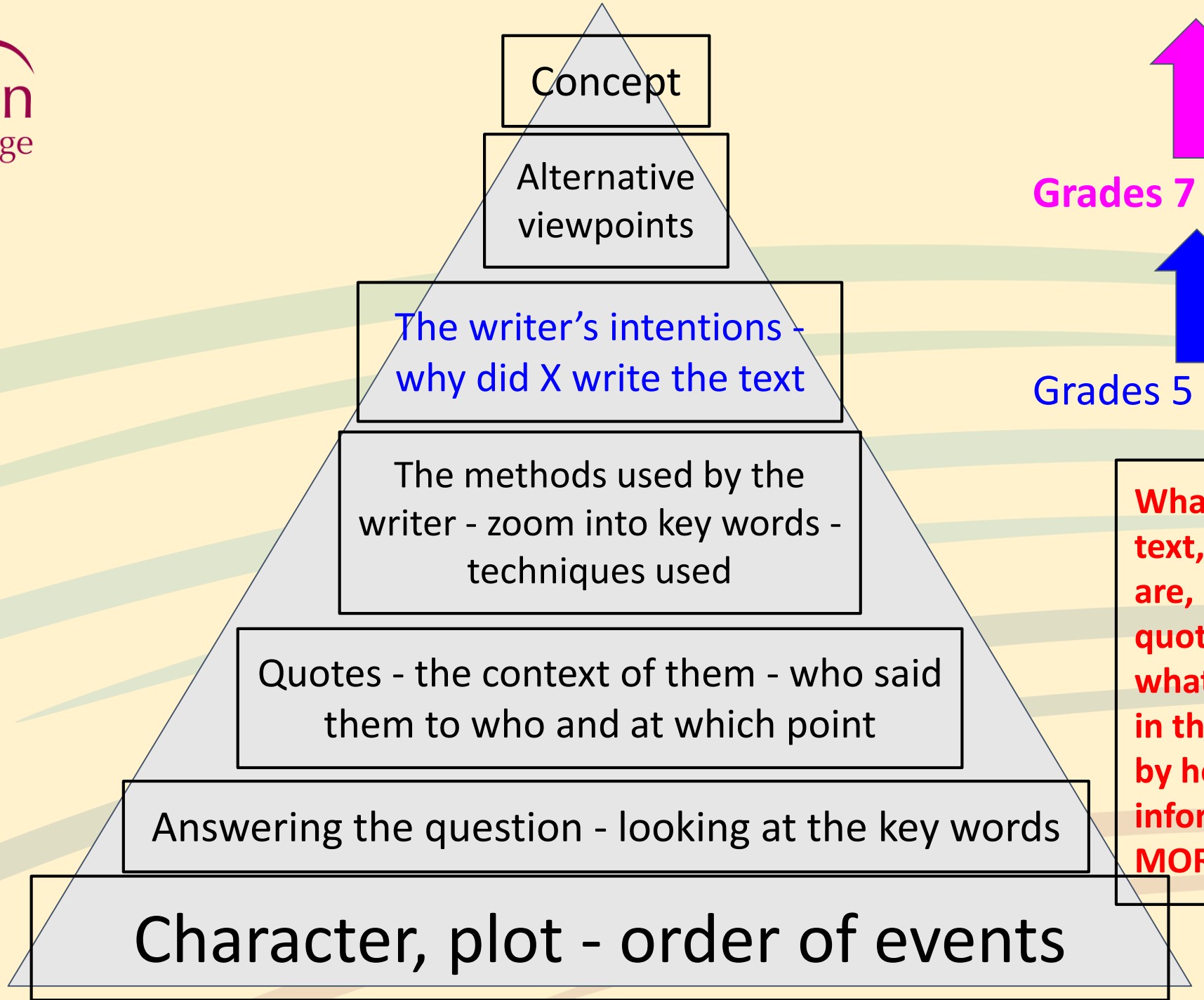

Grades 7 upwards

Grades 5 upwards

What happens in the text, who the characters are, remembering quotations, knowing what methods are used in the quotations learned by heart is just basic information. SO MUCH MORE IS NEEDED

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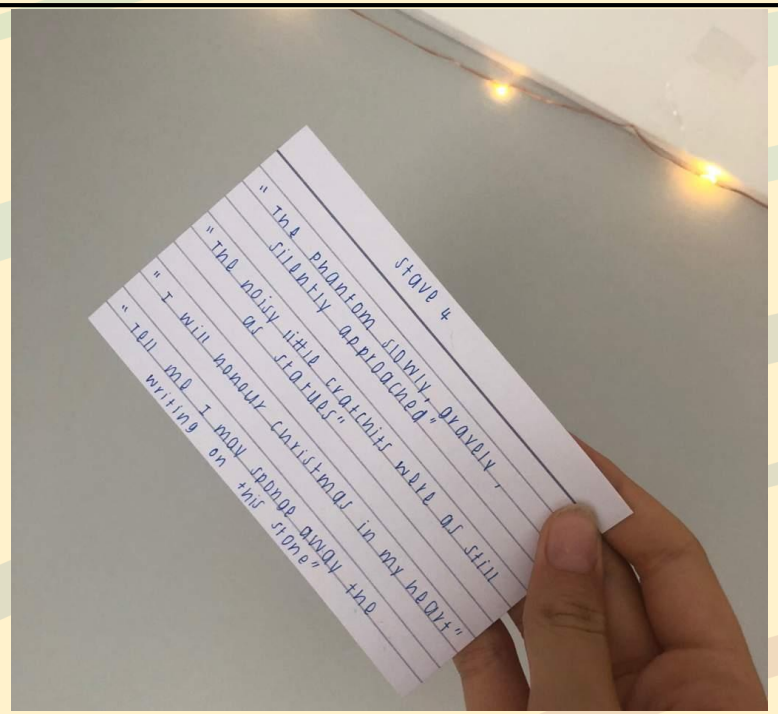
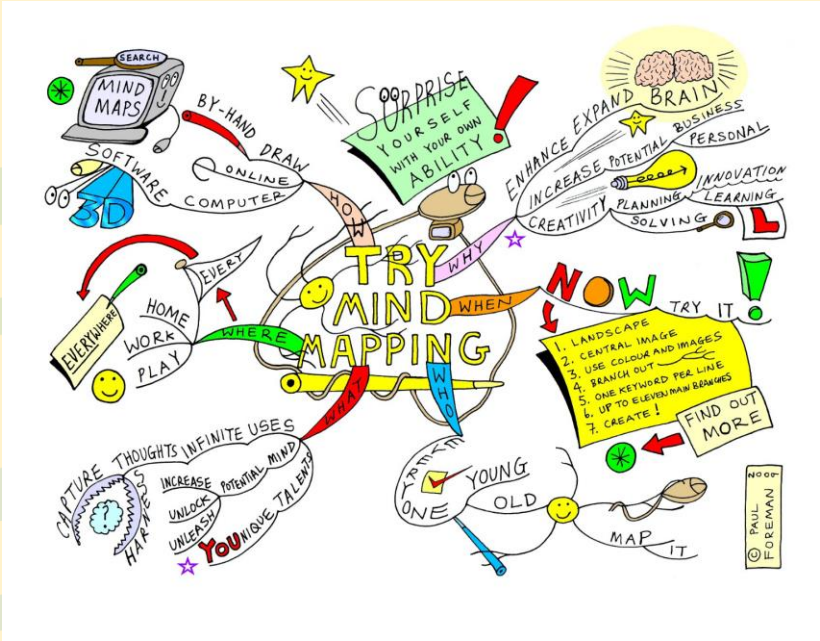
What revision looks like in English and English Literature:

Flashcards made using Knowledge Organisers - test your children on quotes from the text but where the quote comes from too and the reasons the writer wrote the text too





Mind mapping - taking information and categorising it - cause and effect

Practise questions under timed conditions

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On the pupil drive, under English Language and Literature are:

- Videos of teachers reteaching structures
- Links to quick and long videos online made by English teachers
- Knowledge Organisers (including key quotes to learn and the methods to analyse in the quotes themselves)
- Past paper questions
- Examples of past students' marked work

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Year 10 Information Evening

Mathematics

Claire Shearn

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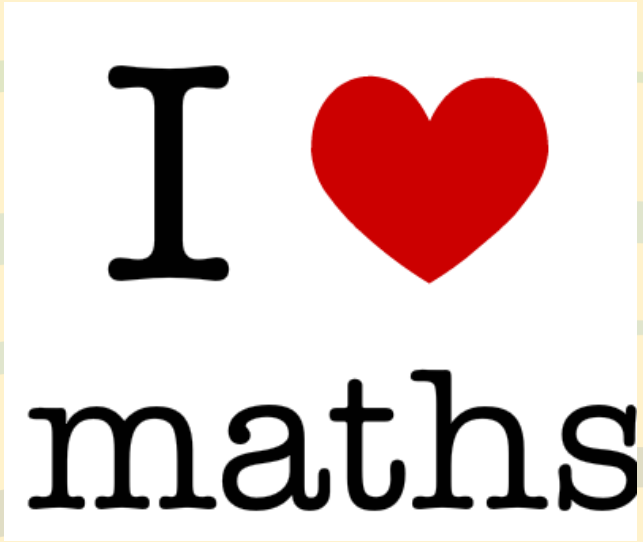
Practical ways to Support your child

Be positive

A parent's perception of Maths influences not only their child's feelings about Maths, but also their child's achievement in Maths.



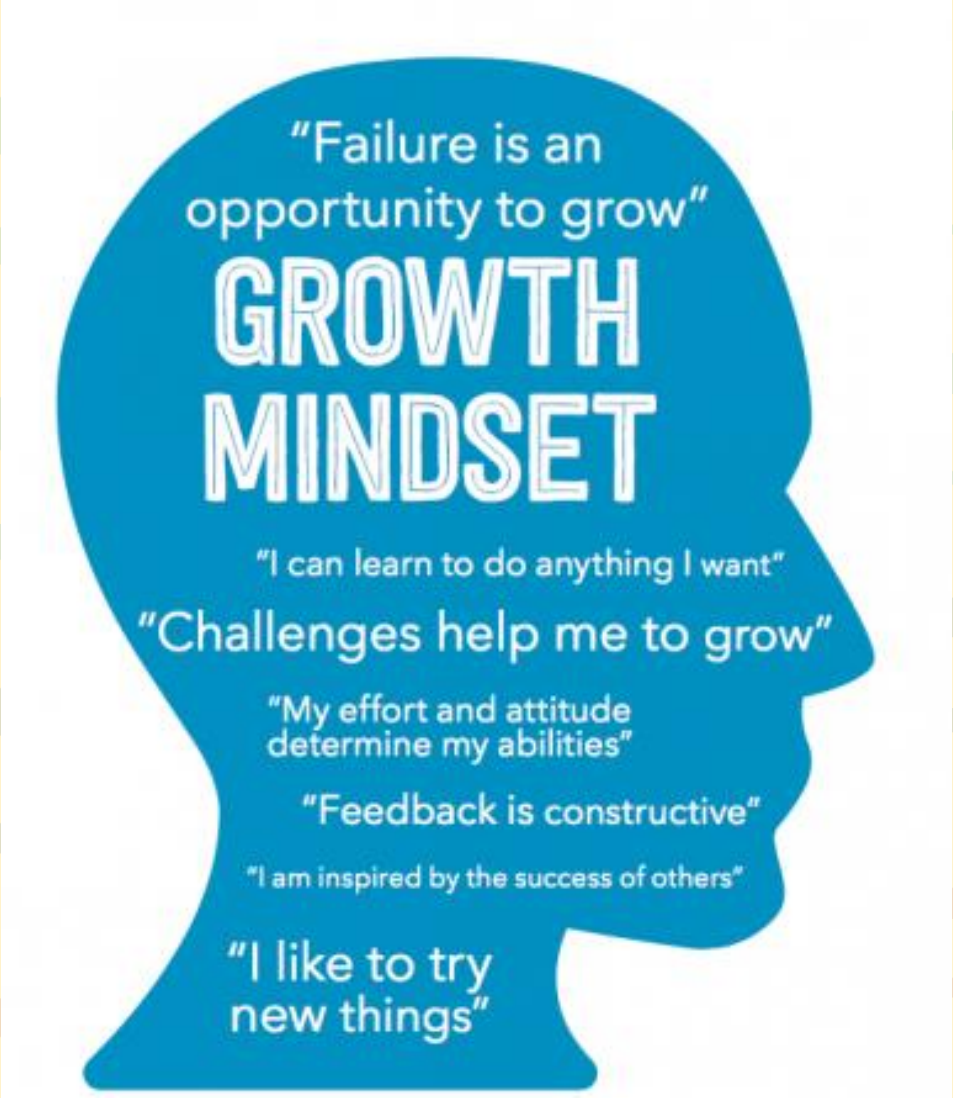
Be involved

Show an interest in the Maths they are learning.

Practical ways to Support your child

Encourage a growth Mindset

Research shows that effort trumps ability when it comes to learning Maths.



Course Timeline

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Year 9

Homework & Revision

- Complete homework
- Prepare for milestones

Home

School

Build Skills

Start course Spring term

Embed foundation skills

Year 10

Homework & Revision

- Complete homework
- Prepare for milestones
- Organise Knowledge
- Memorise Knowledge

Home

School

Build Skills and Make Links

Level of difficulty increases

Expectations of pupils increase

Year 11

Becoming Self-Driven, Independent Learners

- Complete homework
- As knowledge becomes secure, focus moves to practising exam style questions
- Know areas for development

Home

School

Exam Preparation

Finish course Autumn term
Mock Exams November 24
Consolidation of course
Mock Exams February 2025
Sit GCSEs summer 2025

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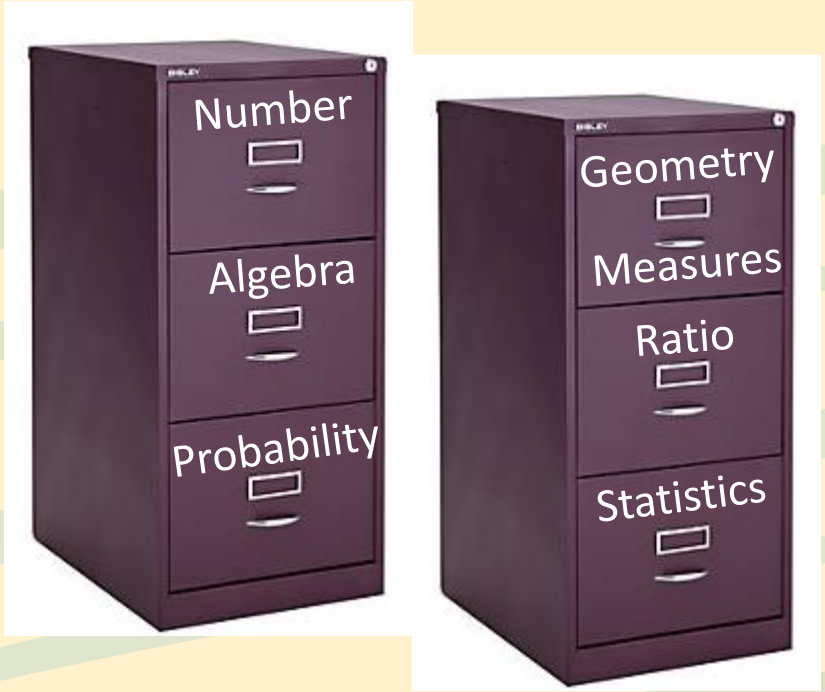
The Curriculum

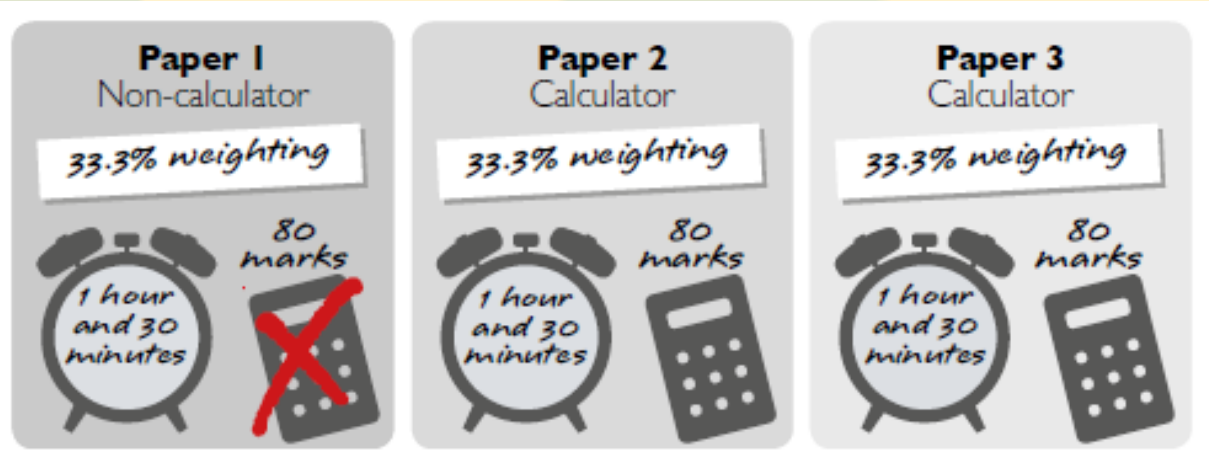


Pupils will be assessed on their ability to

Use and apply standard techniques
Reason, interpret and communicate mathematically
Solve problems within maths and in other contexts

Assessment

- Pearson Edexcel Exam Board
- 100% exam – no coursework
- 3 exam papers



- Two tiers of paper – Higher and Foundation

Teaching Groups

10 East H1	Mrs Shearn		10 West H1	Miss Cook
10 East H2	Mr Coleclough		10 West H2	Dr Tunna
10 East H3	Miss Cook		10 West H3	Mr Benson
10 East F1	Dr Tunna		10 West F1	Mrs Cooper
10 East F2	Mr Benson		10 West F2	Mr Slade

Red groups: Higher tier

Green groups: Decision yet to be made on an individual basis.

Blue groups: Foundation tier

Foundation: Grades 1-5 Higher Tier: Grades 4-9

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Subject Areas

- ART
- BUSINESS STUDIES
- COMPUTER SCIENCE
- CORE LITERACY
- CREATIVE IMEDIA
- DANCE
- DESIGN TECHNOLOGY
- DIGITAL PHOTOGRAPHY
- DRAMA
- ENGINEERING
- ENGLISH
- FOOD PREPARATION AND NUTRITION
- FOUNDATION LEARNING
- GEOGRAPHY

A WIDE RANGE OF SUBJECTS ON OFFER

Use the menu on this page to find out more about the subjects taught at Sawston Village College.

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Year 10 – MATHEMATICS Programme of Study

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Algebra • Simplifying algebraic expressions • Expanding brackets and factorising • Completing the square (H) • Algebraic fractions (H) **Pythagoras and Trigonometry** • Apply Pythagoras in range of contexts • Calculate side lengths and angles in right angles triangles using trigonometry • Sine and Cosine rule (H) • Sine rule for area (H)	**Solving Equations** • Linear equations • Quadratic equations (H) • Simultaneous Equations • Iteration to estimate solutions (H) • Linear and quadratic equations **Transformations** • Rotation, reflection, enlargement • Translations • Describing transformations • Invariant points (H) **Milestone Assessment: End of term calculator**	**Perimeter, Area & Volume** • Sector area • Arc length and perimeter of a sector • Area of a segment (higher only) • Volume and surface area of prisms and non prisms **Angles** • Recap and consolidation of KS3 content (F) • Circle Theorems (H) **Inequalities** • Solve and represent linear inequalities • Solve quadratic inequalities algebraically and graphically (H)	**Similarity and Congruence** • Criteria for congruent triangles • Geometric arguments and proof (H) • Length, area and volume scale factors (H) **Ratio and Proportion** • Recap and consolidation of KS3 content • Ratio notation for map scales • Unit conversion • Scale drawing and bearings • Practical examples of inverse proportion	Preparation for exams: **Milestone Assessment: GCSE papers** **Paper 1: 90 minutes (non-calculator)** **Paper 2: 90 minutes (calculator)** **After the exams:** • Assessment feedback • Responsive teaching (revisit weaker topics) **Sequences** • Square, cube, triangular number sequences • Linear sequences • Fibonacci sequences • Geometric sequences • Quadratic sequences (H)	**Probability** • Recap and consolidation of KS3 content (foundation only) • Solve problems using algebraic probabilities (higher only) • Product rule (higher only) • Conditional probability using venn diagrams (higher only) **Milestone Assessment: End of term non-calculator**

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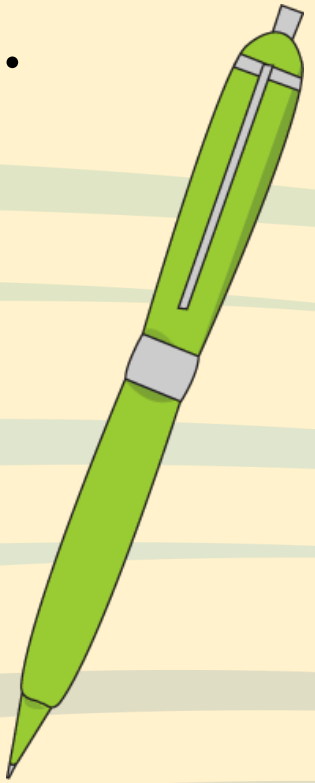
Pupils are expected to mark their work in green pen and correct mistakes.

MISTAKES ARE PROOF YOU ARE TRYING

CORRECTING MISTAKES ARE PROOF THAT YOU'RE GROWING !



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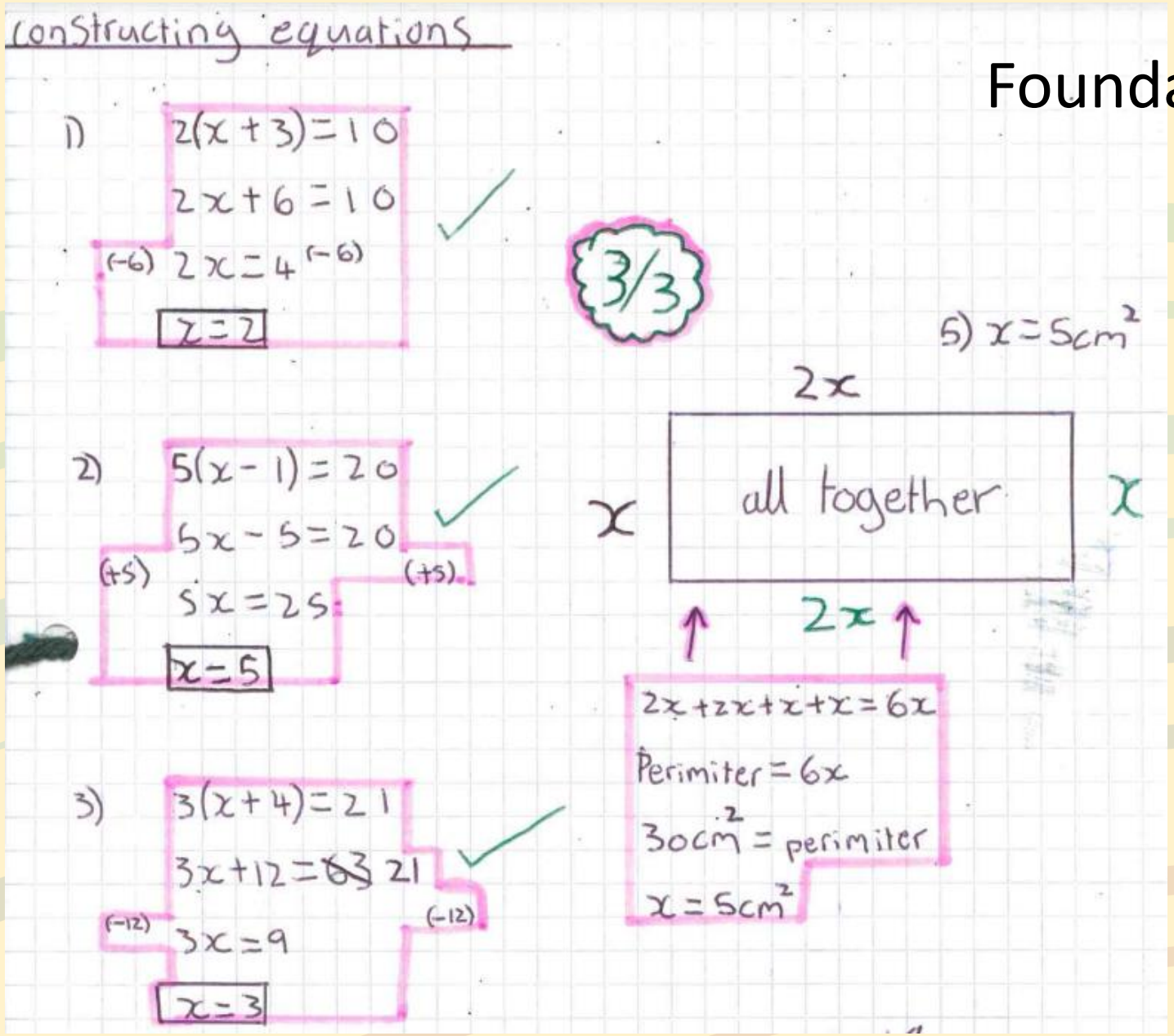
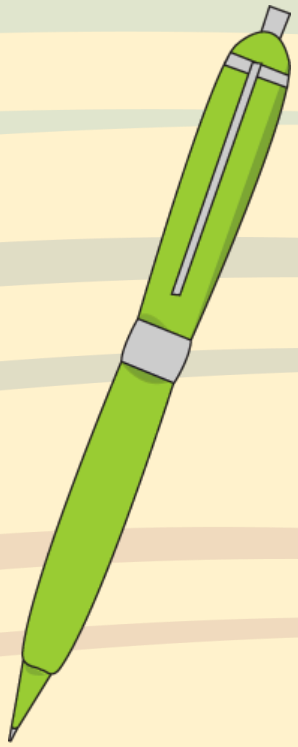
What does your child's book look like?

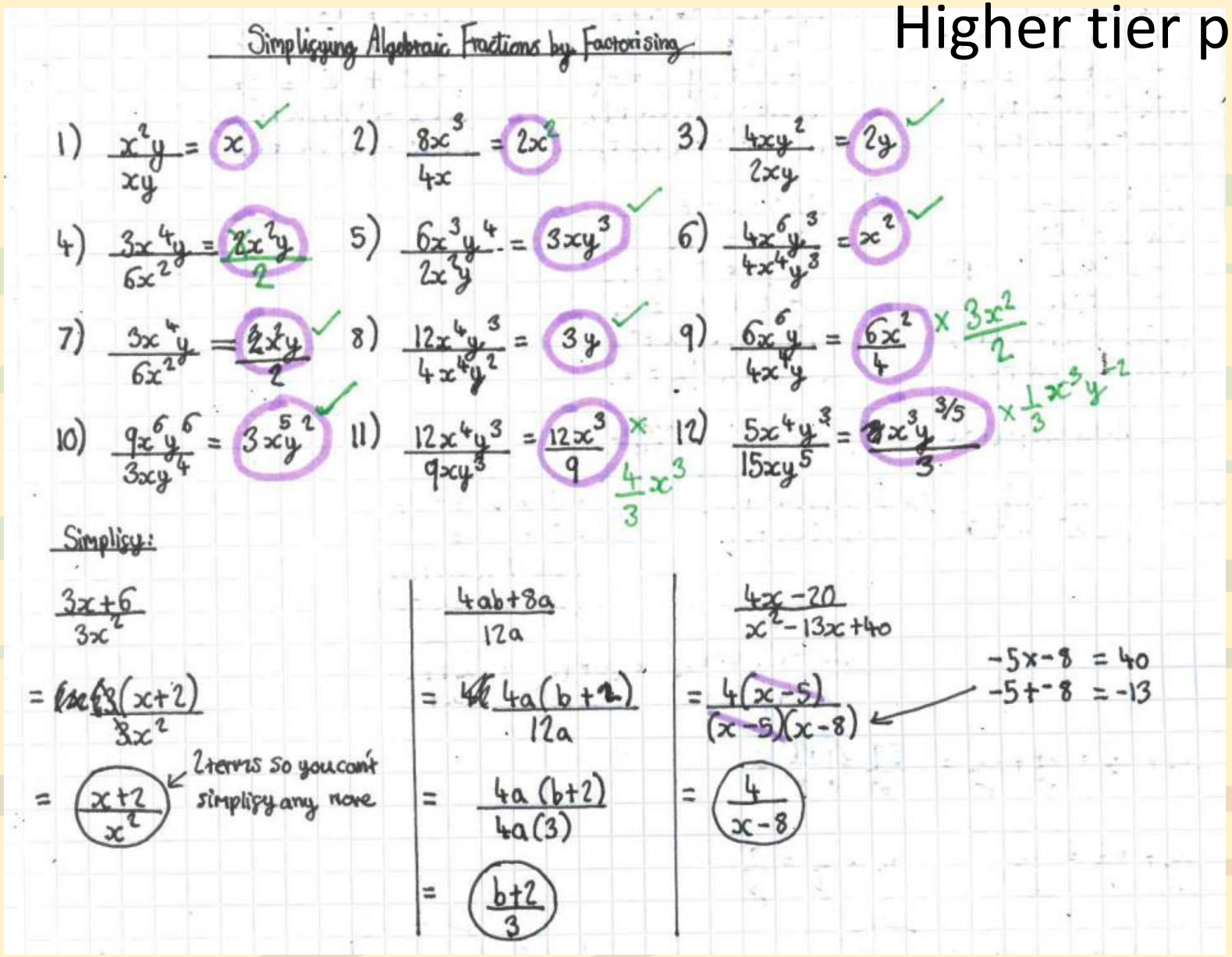
Foundation Pupil





What does your child's book look like?

Higher tier pupil



Simplifying Algebraic Fractions by Factorising

1) $\frac{x^2y}{xy} = x$ ✓

2) $\frac{8x^3}{4x} = 2x^2$

3) $\frac{4xy^2}{2xy} = 2y$ ✓

4) $\frac{3x^4y}{6x^2} = \frac{2x^2y}{2}$

5) $\frac{6x^3y^4}{2x^2y} = 3xy^3$ ✓

6) $\frac{4x^6y^3}{4x^4y^3} = x^2$ ✓

7) $\frac{3x^4y}{6x^2} = \frac{2x^2y}{2}$ ✓

8) $\frac{12x^4y^3}{4x^4y^2} = 3y$ ✓

9) $\frac{6x^6y}{4x^4y} = \frac{6x^2}{4} \times \frac{3x^2}{2}$

10) $\frac{9x^6y^6}{3xy^4} = 3x^5y^2$ ✓

11) $\frac{12x^4y^3}{9xy^3} = \frac{12x^3}{9} \times \frac{4}{3}x^3$

12) $\frac{5x^4y^3}{15xy^5} = \frac{x^3y^{3/5}}{3} \times \frac{1}{3}x^3y^{1/2}$

Simplify:

$\frac{3x+6}{3x^2}$

$= \frac{3(x+2)}{3x^2}$

$= \frac{x+2}{x^2}$ ← 2 terms so you can't simplify any more

$\frac{4ab+8a}{12a}$

$= \frac{4a(b+2)}{12a}$

$= \frac{4a(b+2)}{4a(3)}$

$= \frac{b+2}{3}$

$\frac{4x-20}{x^2-13x+40}$

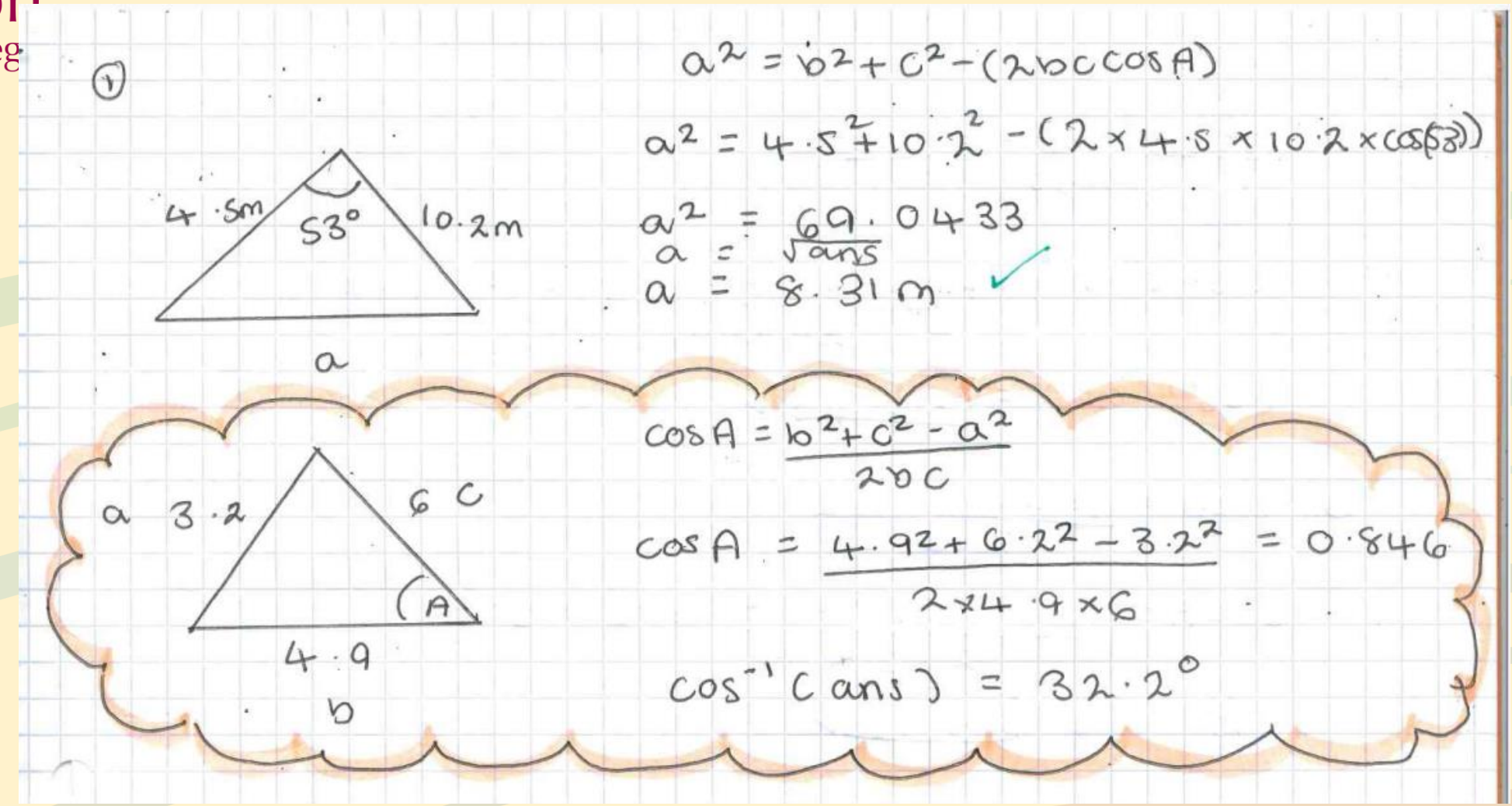
$= \frac{4(x-5)}{(x-5)(x-8)}$

$= \frac{4}{x-8}$

$-5x-8 = 40$

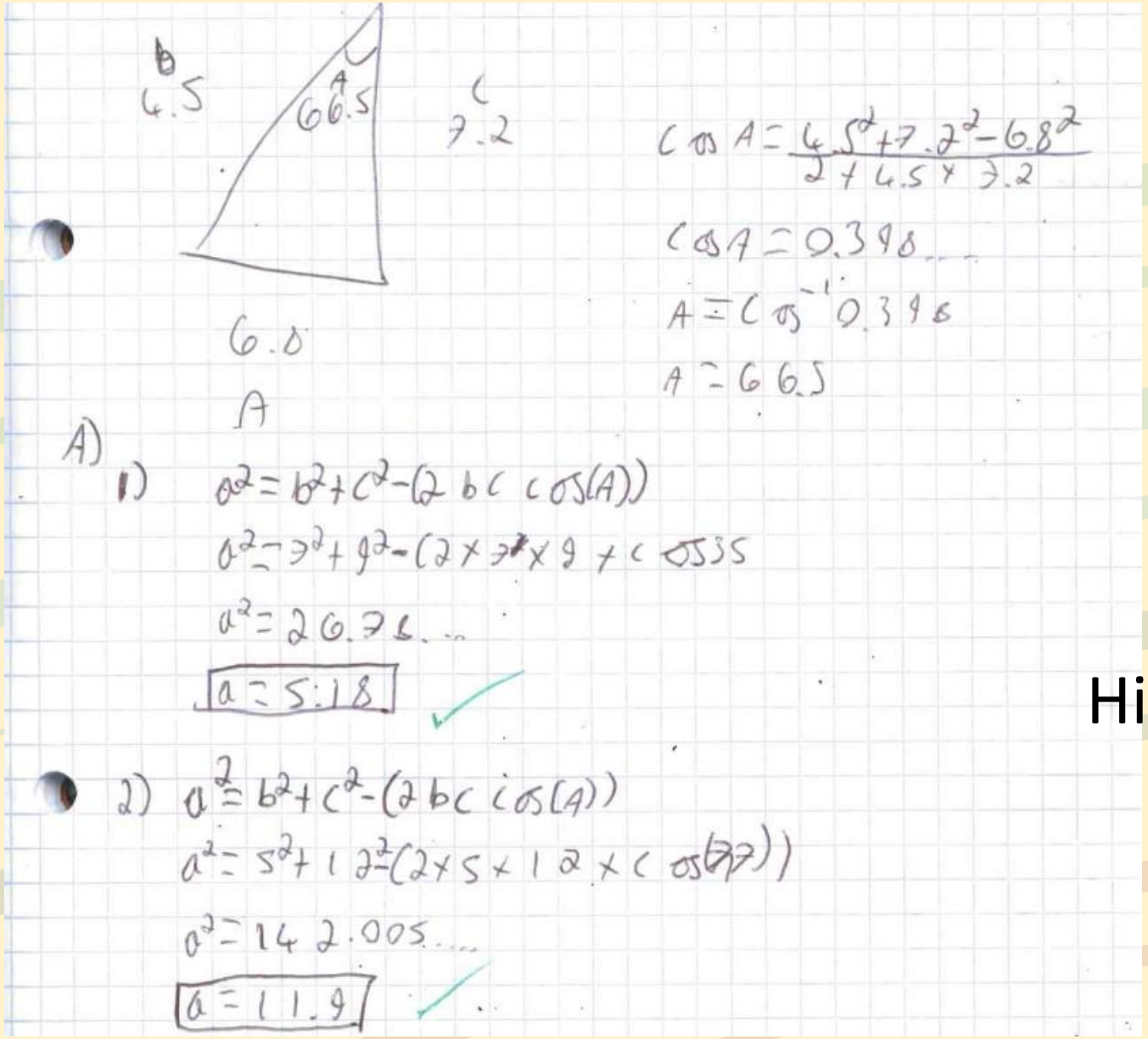
$-5+-8 = -13$

Is your child's book well organised with clear examples?



Higher tier Pupil

Is your child's book well organised with clear examples?



Higher Pupil

Practical ways to Support your child

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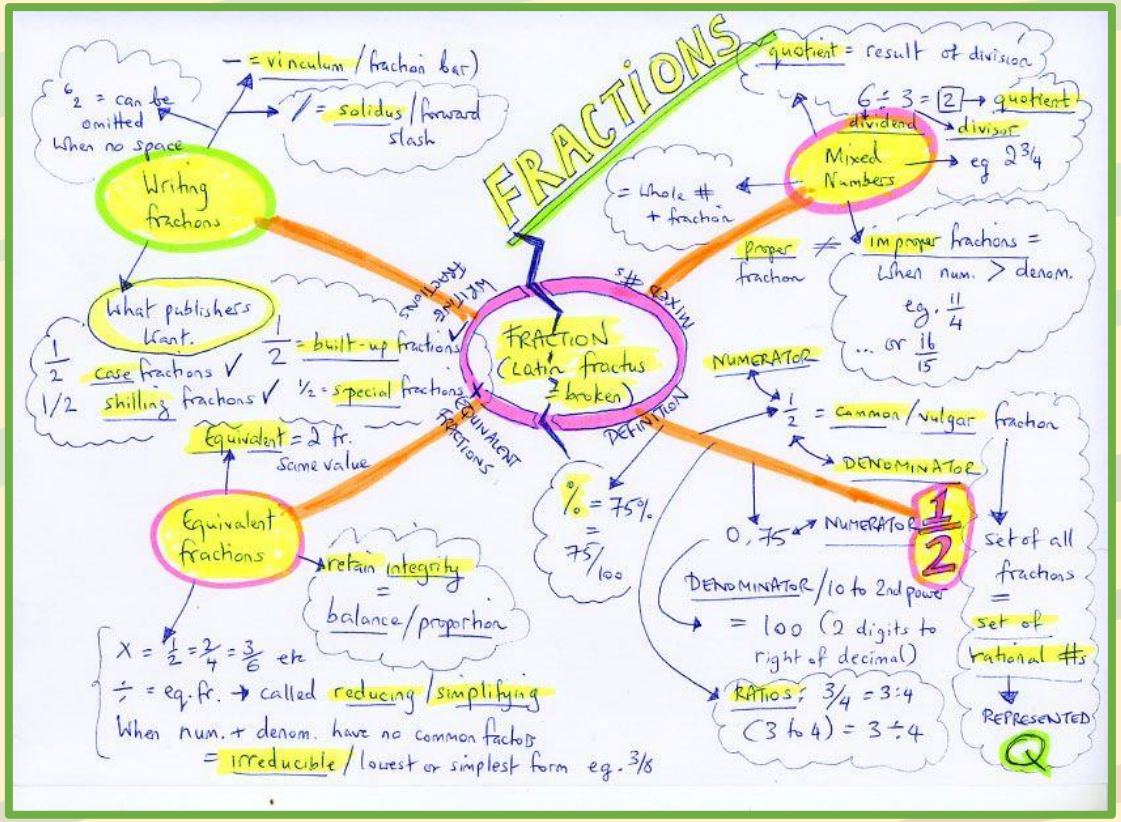
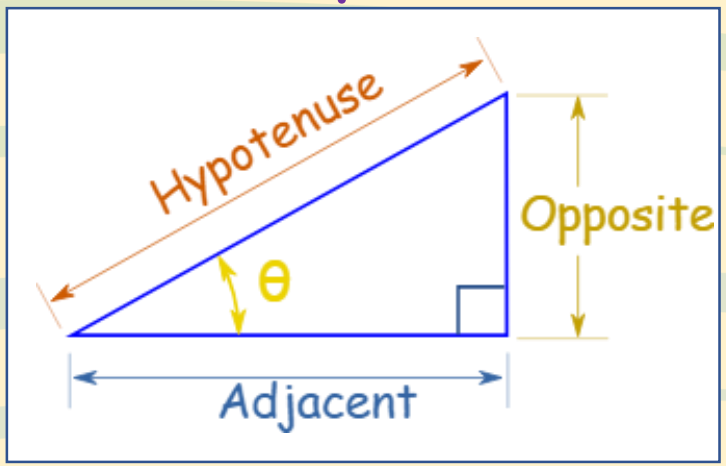
Encourage regular review: organising information, making links between topics, memorising formulae.





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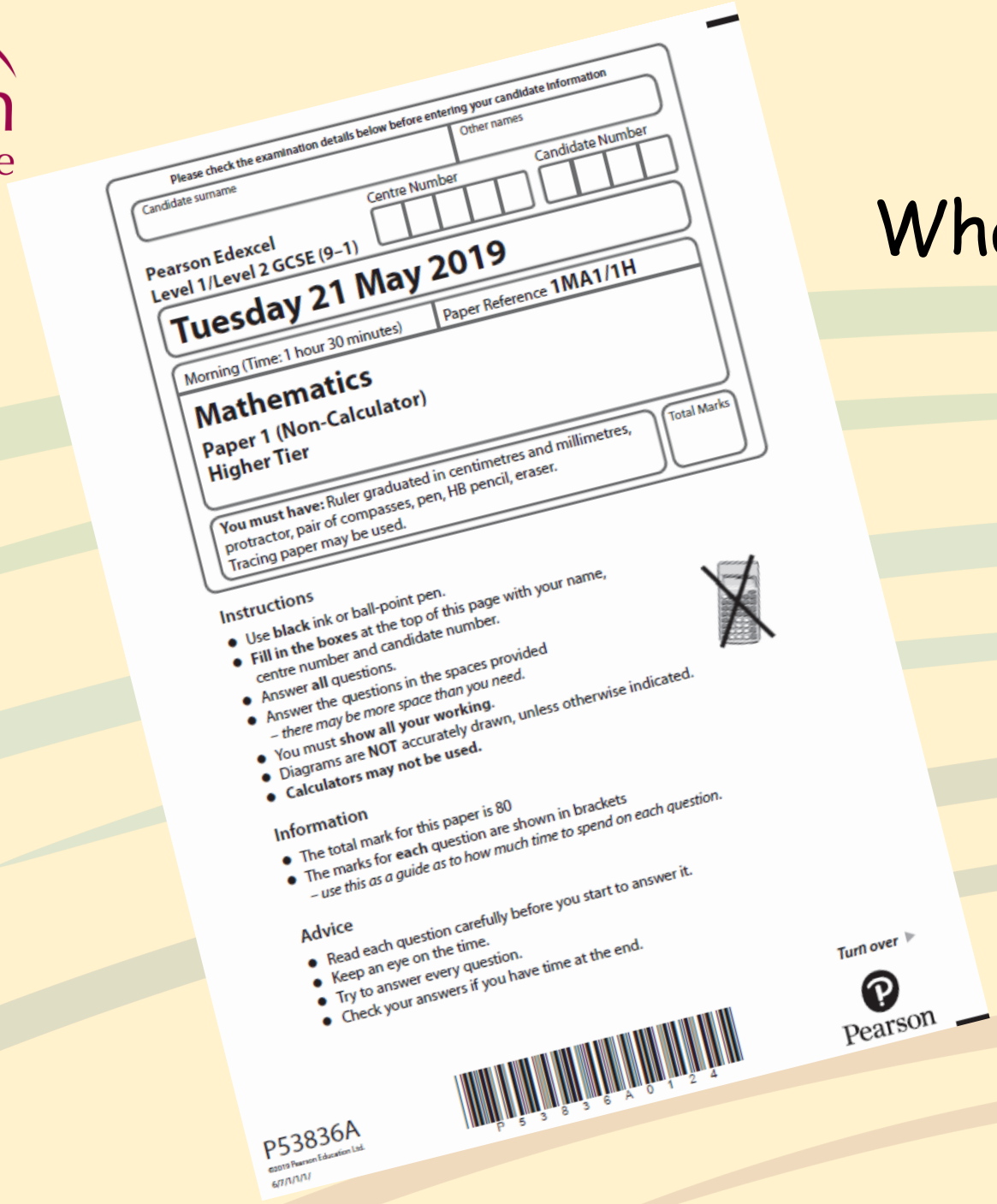

Please check the examination details below before entering your candidate information

Candidate surname | Other names | Centre Number | Candidate Number

Pearson Edexcel
Level 1/Level 2 GCSE (9–1)

Tuesday 21 May 2019

Morning (Time: 1 hour 30 minutes) | Paper Reference 1MA1/1H

Mathematics
Paper 1 (Non-Calculator)
Higher Tier

Total Marks

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶

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6/7/1/1/1/

What are the exam Papers like?

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Applying Standard Techniques

4 Write $\frac{4}{5}$ as a percentage.

8 (a) Work out $\frac{5}{8} \times \frac{3}{4}$

(b) Work out $\frac{2}{3} - \frac{1}{4}$

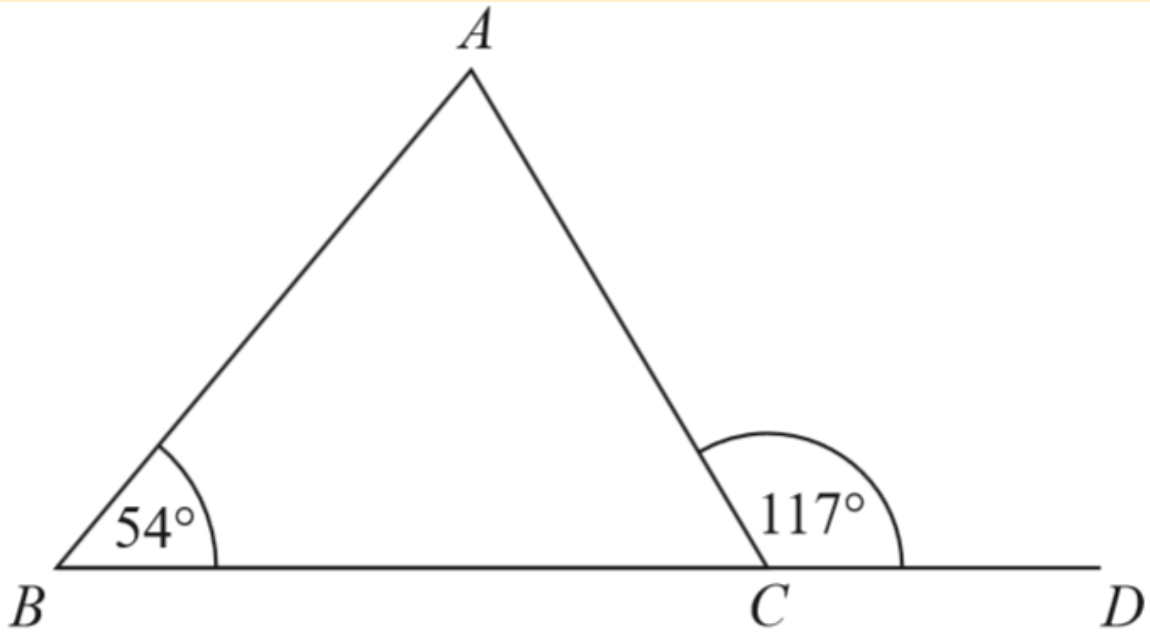
16 $v = u + at$

$u = 1 \qquad a = -3 \qquad t = \frac{1}{2}$

Work out the value of v.

23 Work out 54.6×4.3

Reasoning and Interpreting



BCD is a straight line.
ABC is a triangle.

Show that triangle *ABC* is an isosceles triangle.
Give a reason for each stage of your working.

Problem Solving

Mr Page uses oil to heat his home.

At the beginning of November there were 1000 litres of oil in his oil tank.

Mr Page bought enough oil to fill the tank completely.
He paid 50p per litre for this oil.
He paid a total amount of £750

750 ÷ 0.5 = 1500 Litres

1500 + 1000 = 2500 L (full tank)

At the end of February Mr Page had 600 litres of oil in the tank.
He bought enough oil to fill the tank completely.
The cost of oil had increased by 4%.

2500 – 600 = 1900L

1.04 x 0.50 = 52p per Litre

Work out the total amount Mr Page paid for the oil he bought in February.

0.52 x 1900 = £988

Milestone Assessments

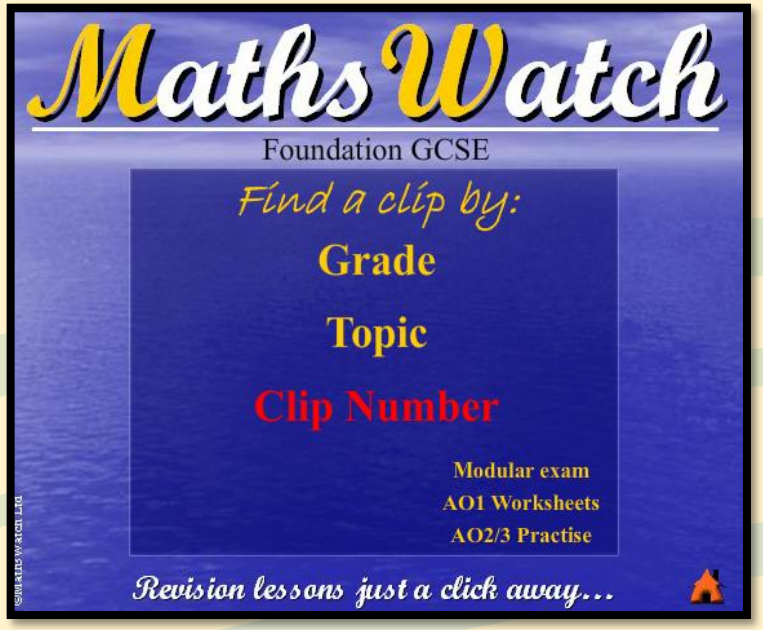
Early December

End of April

Beginning of July

To revise maths you need to DO maths!

Topic Practice



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Claire Shearn
Head of Maths

cshearn@sawstonvc.org

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Year 10 Information Evening

Science

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Our exam board is:

And our pupils will either study:

- **AQA Separate Science (Triple)**
- **AQA Trilogy Science (Combined)**

Pupils began the Science GCSE course in September of Year 9.

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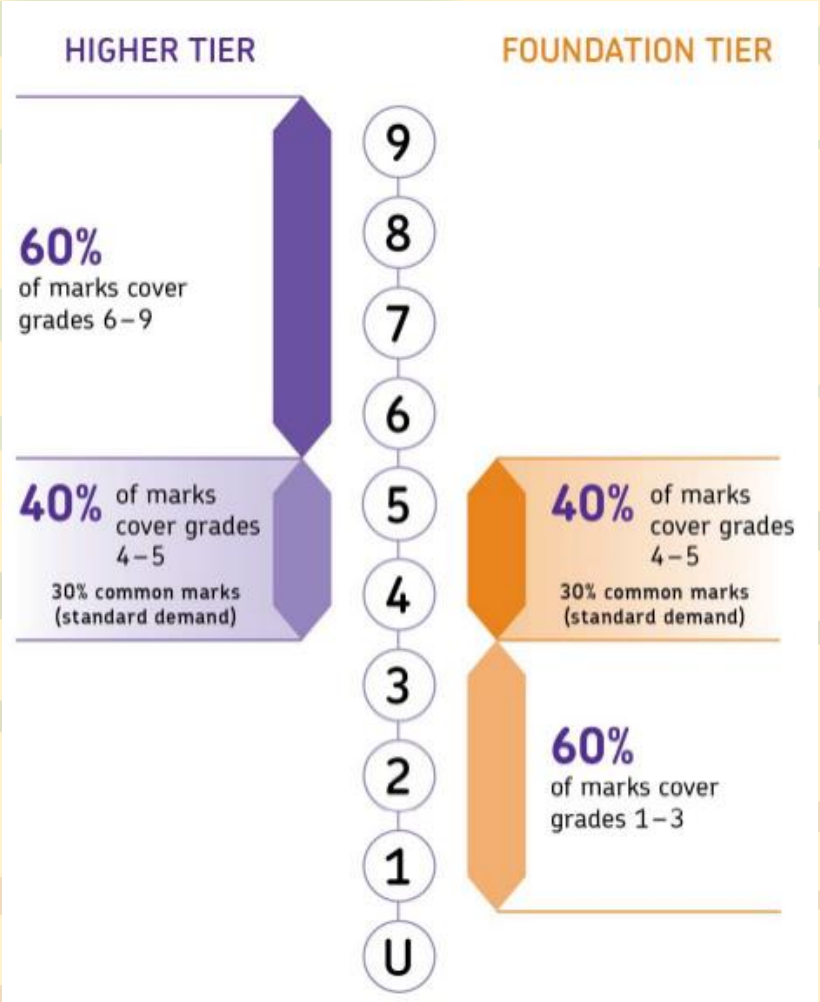
AQA Science Courses

Trilogy	Separate
6 exams	
1 hour 15 minutes	1 hour 45 minutes
Two GCSE grades	Three GCSE grades
H tier = 4/4 to 9/9 F tier = 1/1 to 5/5	H tier only (4 to 9)
Mathematical demand	

AQA Tier Choice Guidance

- We need to select a tier of entry for Trilogy (Combined) Science pupils
- This is based on pupils' mathematical ability, minimum grade and attainment in end of topic assessments.



Year 10 Exam - Summer term

Trilogy	Separate
3 exams	
Paper 1 topics only	
1 hour 15 minutes	1 hour 45 minutes
H tier = 5/5 to 9/9 F tier = 1/1 to 5/5	H tier only (5 to 9)

Y10 Exam Paper 1 Topics

Biology	Chemistry	Physics
Cell Biology	Atomic Structure & the Periodic Table	Energy
Organisation	Bonding, Structure & the Properties of Matter	Particle Model of Matter
Infection & Response	Quantitative Chemistry	Electricity
Bioenergetics	Chemical Changes	Atomic Structure
	Energy Changes	

Physics Equations

- 21 Trilogy Physics equations to learn, 23 Triple Physics equations to learn
- "Do LESS"

Do LESS in Science!

Look for the **quantities** and check **units**

Equation; write it down!

Substitute in the numbers

Solve and write down the **units**

Equation number	Word equation	Symbol equation
1	weight = mass × gravitational field strength (g)	$W = m\,g$
2	work done = force × distance (along the line of action of the force)	$W = F\,s$
3	force applied to a spring = spring constant × extension	$F = k\,e$
4	moment of a force = force × distance (normal to direction of force)	$M = F\,d$
5	pressure = $\frac{\text{force normal to a surface}}{\text{area of that surface}}$	$p = \frac{F}{A}$
6	distance travelled = speed × time	$s = v\,t$
7	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
8	resultant force = mass × acceleration	$F = m\,a$
9 HT	momentum = mass × velocity	$p = m\,v$
10	kinetic energy = 0.5 × mass × (speed)^2	$E_k = \frac{1}{2}m\,v^2$
11	gravitational potential energy = mass × gravitational field strength (g) × height	$E_p = m\,g\,h$
12	power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
13	power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
14	efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
15	efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
16	wave speed = frequency × wavelength	$v = f\,\lambda$
17	charge flow = current × time	$Q = I\,t$
18	potential difference = current × resistance	$V = I\,R$
19	power = potential difference × current	$P = V\,I$
20	power = (current)^2 × resistance	$P = I^2\,R$
21	energy transferred = power × time	$E = P\,t$
22	energy transferred = charge flow × potential difference	$E = Q\,V$
23	density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

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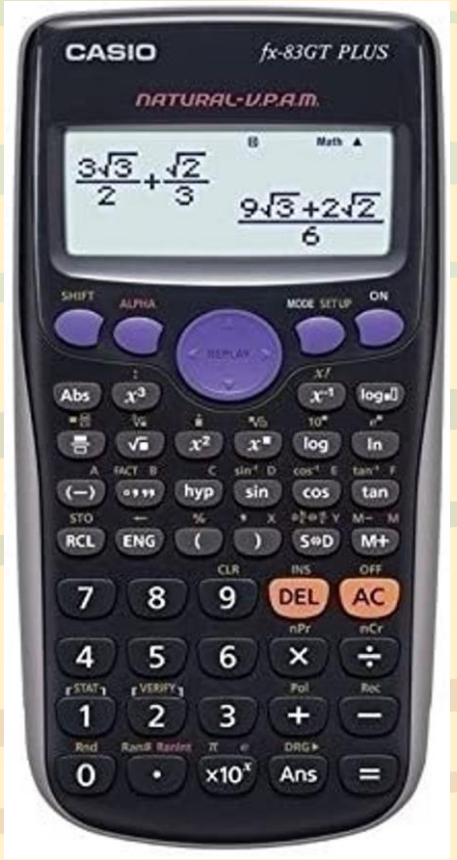
Calculators!

- 30% of the Physics paper is applied Maths
- 20% of Chemistry is Maths
- 10% of Biology is Maths

- Please ensure your child has a scientific calculator which they bring to every lesson



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Recommended Revision Techniques

- **Diagnose the knowledge gaps –** checklists, revision guides
- **science.sawstonvc.org**

AQA Forces GCSE Trilogy				
Code	Knowledge	R	A	G
	Forces and their interactions			
F1	Define a scalar and vector quantity			
F2	List contact and non-contact forces			
F3	Know the difference between mass & weight and calculate weight *(weight = mass x gravity)*			
F4	Use force diagrams and be able to calculate and define resultant force			
F5	Be able to draw a free body diagram showing forces			
F8	Using vector diagrams to determine resultant forces			
F7	**HT ONLY** be able to resolve forces into two components			
	Work done and energy transfer			
F8	Calculate work done by a force *(work done = force x distance)* and			
F9	Understand and define a joule. How work done effects an objects			
	Forces and Elasticity			
F10	Describe how an objects shape is changed and how elastic objec			
F11	**Required practical** Hooke's Law & calculation *(Force = spring co*			
F12	Calculate work done in stretching a spring [elastic energy = 0.5 x (extension)^2]			
	Forces and Motion			
F20	Explain the difference between distance and displacement			

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Sawston Science

Home KS3 KS4

Checklists | Knowledge Organisers | Practice Questions | Revision Help

Atomic Structure & the Periodic Table

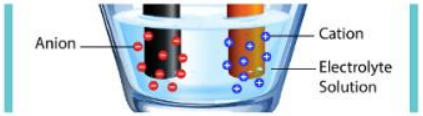
- States of matter
- atoms, elements & compounds
- balancing equations; separation techniques
- models of the atom; atomic structure
- isotopes

Bonding, Structure and the properties of matter

- Bonding - ionic, covalent & metallic
- states of matter
- properties of compounds, metals & alloys
- polymers
- carbon

Quantitative Chemistry

- Relative formula mass
- percentage mass of elements
- moles
- conservation of mass
- uncertainty
- reacting masses
- limiting reactants
- concentration



Chemical Changes

- Reactions of metals
- reactivity series
- metal extraction
- oxidation & reduction
- ionic & half equations
- neutralisation
- acids
- electrolysis

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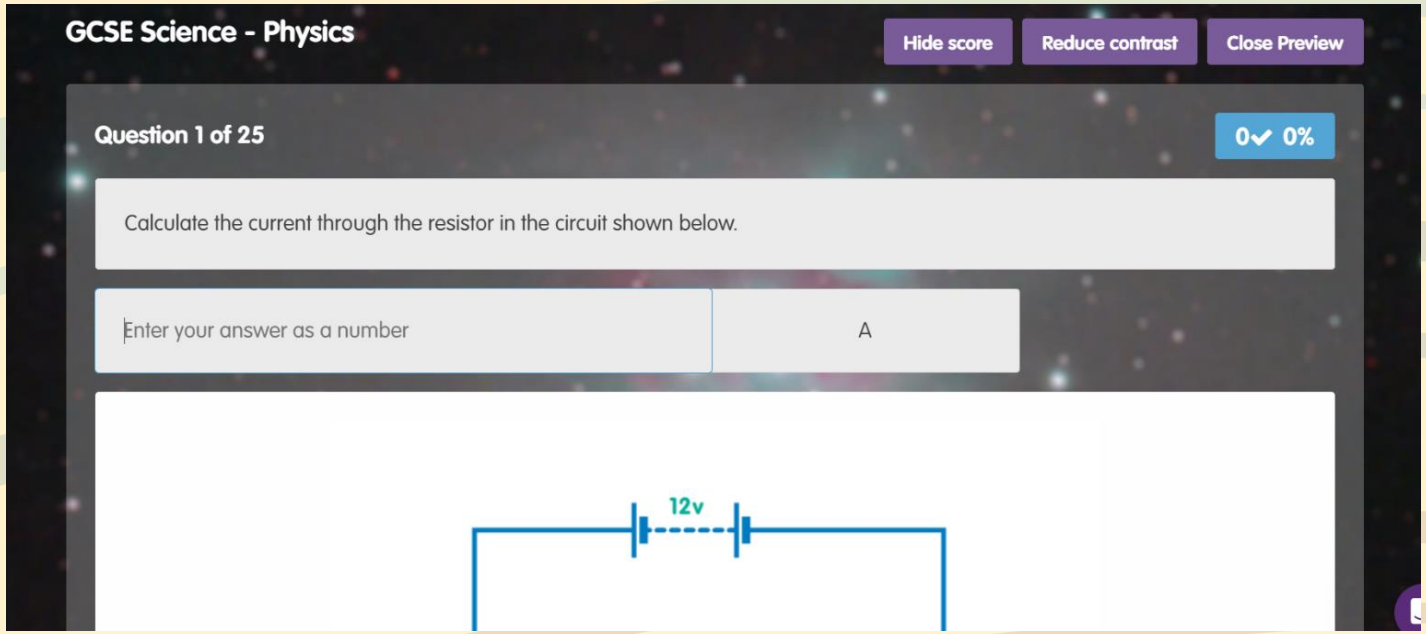
Recommended Revision Techniques

- **Address gaps in knowledge –** make flashcards, complete Educake quizzes, work through mastery booklets, watch videos

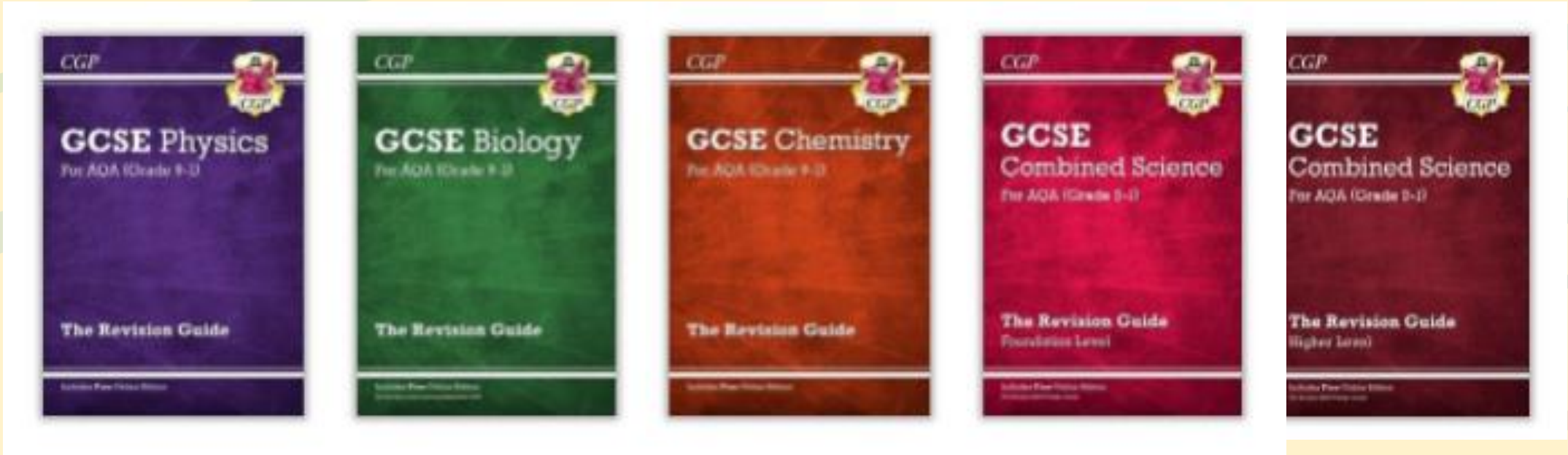


Recommended Revision Techniques

- **Test your understanding –** attempt past paper exam questions and self-mark (see the Pupil Drive)

Revision Resources - WisePay

- Separate Science Revision Guides
- Trilogy Science Revision Guides



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Miss Armsby

sarmsby@sawstonvc.org

(Head of Science)

Mrs Philpott

ephilpott@sawstonvc.org

(Deputy Head of Science)

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Year 10 – key contacts

Year 10 Lead: Mr Andrae Davis

adavis@sawstonvc.org

Work Experience Lead: Miss Darcie Jackson

djackson@sawstonvc.org

Year 10 – key dates

Thursday 30th November	Work Experience information evening
Thursday 7th December	Autumn progress report
Thursday 1st February	Year 10 Meet the Mentor
February	WEX launch to pupils
Thursday 14th March	Spring progress report
18th – 28th March	Year 10 speaking exams
22nd April – 1st May	Year 10 exams
Thursday 6th June	Year 10 parents' evening
17th – 28th June	Work experience
Thursday 11th July	Summer progress report

Watch out for post-16 open evenings and taster days in the summer term.

What are our aims for Year 10?

- Build skills, understanding and knowledge in readiness for Year 11 GCSEs/BTECs so that pupils fulfil their potential
- Develop confidence, leadership, creativity and other employability skills
- Begin to prepare for post-16 opportunities: ensuring that all pupils progress on to suitable courses, apprenticeships or jobs with training
- Provide an exciting range of enrichment opportunities
- Support wellbeing and respect for each other and our place in the community

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A great start!

House points – almost 3000 for Year 10 in the first half term!

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Attendance

Year 10 overall attendance for half term 1: 94.02%

This is below the SVC target of 95%.

40 pupils have attendance below 90%.

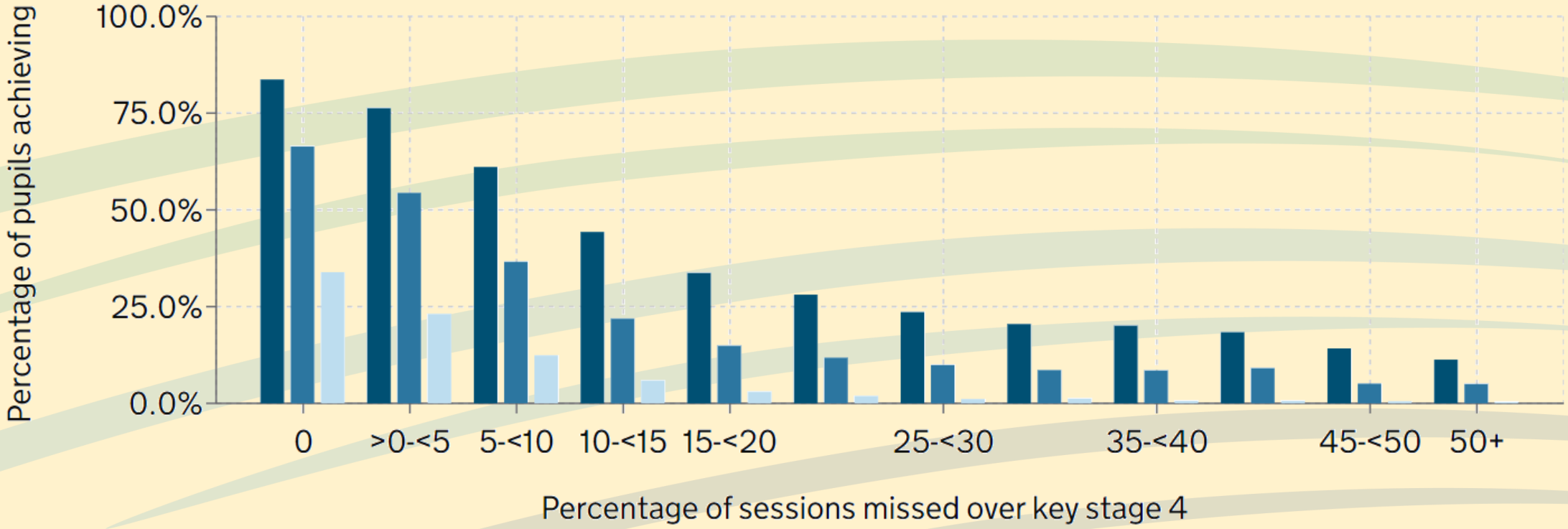
What is the impact of low attendance?

90% attendance = [illegible] **missed** every week!!

90% over 5 years =
20 weeks
or
HALF A YEAR
MISSED

Absent half a day every week

What is the impact of low attendance?



Progress and Reporting

Subject	Minimum Grade	Estimated Grade	Attitude to work	Behaviour	Homework	Organisation
Combined Science	7/7	7/7	Excellent	Good	Good	Excellent
	Group teacher(s)					**Dr J Ferguson, Miss S Armsby, Mrs E Philpott**
Computer Science	7-	6	Good	Good	Good	Good
	Group teacher(s)					**Mr N Kelly**
D&T	7	7+	Excellent	Excellent	Excellent	Excellent
	Group teacher(s)					**Mr J Bannister**
English	7-	7	Excellent	Excellent	Excellent	Excellent
	Group teacher(s)					**Ms N Goodbrand**
English Literature	7-	6+	Excellent	Excellent	Excellent	Excellent
	Group teacher(s)					**Ms N Goodbrand**
History	7+	7+	Excellent	Excellent	Excellent	Excellent
	Group teacher(s)					**Mr J Reed**
Maths	8	8	Excellent	Excellent	Good	Good
	Group teacher(s)					**Mrs E Wagstaff**
Spanish	7	8-	Excellent	Good	Excellent	Good
	Group teacher(s)					**Mrs A Deleplanque**

Progress and Reporting

Subject	Minimum Grade	Estimated Grade	Attitude to work	Behaviour	Homework	Organisation
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	Group teacher(s)					
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Spanish	7	8-	Excellent	Good	Excellent	Good
	Group teacher(s)					
						Mrs A Deleplanque

This is the grade your child is aiming to meet or exceed by the end of Key Stage 4.

This gives an indication of how your child should progress compared with similar pupils in high performing schools like SVC.

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Progress and Reporting

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This is the grade the teacher believes your child will achieve by the end of Key Stage 4, based on their current performance and assessments.

In Year 11 (Dec. 2024 report) the estimated grades are shared with post-16 centres as predicted grades.

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Supporting Your Child's Progress: Revision

https://youtu.be/CPxSzxylRCI

What can you do to help your child?

- Help them to make (and stick to) a realistic revision timetable
  - Start early – aim to start in March for the Year 10 exams
- Quizzing – flashcards
- Encourage them to take responsibility

Work Experience: 17th-28th June

What are the benefits?

- Understand more about the world of work
- Learn about independence: travelling to work, time management
- Opportunity to work with people of all ages
- Understand what qualities employers are looking for in their staff
- Opportunity to apply learning from school in a professional workplace environment

Work Experience: 17th-28th June

How does it work?

- Student own placement
- Pre-approved school placement

Next steps

- Pupils will receive a WEX booklet via their mentors – this contains everything they need to know to help them prepare
- Work Experience information evening for parents: **30th November**
- Pupils wishing to complete a "Student Own Placement" can begin to consider where, but should not approach an employer without first speaking to Miss Jackson

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Thank you for coming!

Erika Wagstaff, Assistant Principal

ewagstaff@sawstonvc.org

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