

Assessment and Grading System at Platanos College

Background

- Assessment is integral to high quality teaching and learning.
- It helps teachers to ensure that our teaching is tailored to pupils and that learners are making expected or outstanding progress.

Tracking data

- Assessment judgements are recorded and backed by a body of evidence created using observations, records or work and formalised testing.
- Assessment judgements are also moderated to ensure our assessments are fair, reliable and valid.

Grading System

- Teachers will assess pupils against standardised Success Criteria derive from the National Curriculum.
- These are short descriptions of what pupils are expected to know and be able to do, in each aspect of every subject.
- We will also use the quantitative 9-1
 grading scale, so we can monitor pupils'
 actual attainment, in line with the recently
 reformed GCSE grading system.

Grading using Success Criteria

Example - Science

| Lesson | Aiming for 4 | | Aiming for 6 | | Aiming for 8 | | |
|--------------------------|--|--|---|--|---|---|--|
| 2014 | I can state the word equation for aerobic respiration. | | I can write the balanced symbol equation for respiration. | | I can apply understanding of respiration in new contexts. | þ | |
| B9.1 Aerobic respiration | I can list ways in which living organisms use energy. | | i can describe respiration as an exothermic reaction. | | I can explain why respiration is an exothermic reaction. | | |
| | I can identify a control | | I can plan an investigation to include a | | I can explain why a control is necessary | | |

Grading using 9-1 grading scale

Ofqual grading

Three key points where the old and the new system aligns:

- The bottom of grade 7 is aligned with the bottom of grade A;
- The bottom of grade 4 is aligned with the bottom of grade C; and
- The bottom of grade 1 is aligned with the bottom of grade G.

Grading new GCSEs from 2017

| New grading structure | Current grading structure |
|-----------------------|---------------------------|
| 9 | Α* |
| 8 | A* |
| 7 | А |
| 6 | В |
| 5 STRONG PASS | |
| 4 STANDARD PASS | C |
| 3 | D |
| 2 | E |
| | F |
| 4 | |
| 1 | G |

Assessment cycle

<u>Assessment cycle – Formal examinations</u>

- There are three formal assessments per year (one per term).
- Pupils will complete an one hour exam for each of their subjects within the formal assessment week.
- Staff will enter two academic grades:
- 1. Current grade (based on pupils' examination grade only).
- Projection grade (the grade pupils are likely to attain at the end of the key stage, following pupils' current rate of progress).
- Individualised targets will be entered.
- CHABOP grades will be entered.
- Reports will be sent home on a termly basis, detailing pupils' overall progress during the particular term.

<u>Progress grades – formal</u> <u>examination</u>

Progress grades

Extending

Secure

Developing

 Depending on the formal examination grade, pupils will be graded 'Extending', 'Secure' or 'Developing', based on pupils' attainment and progress in relation to their end of year targets.

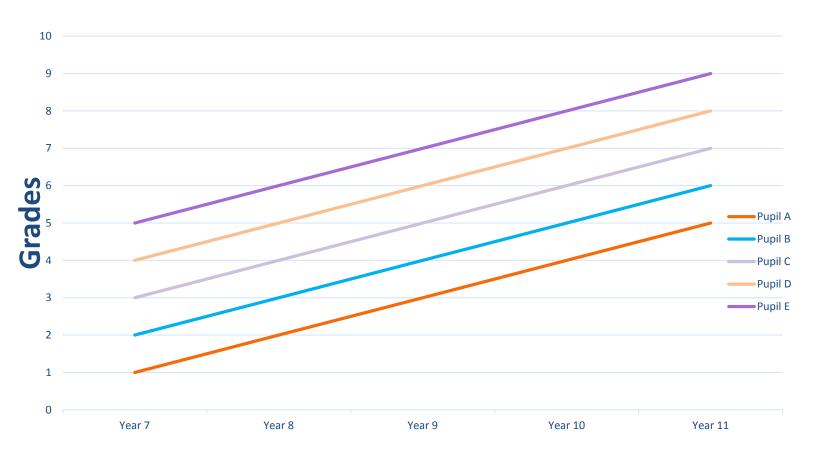
Target setting

Target setting

- Every pupil's target had been set according to the Key Stage 2 results in Reading and Maths.
- Targets are individualised because every pupil has a different starting point.
- As an outstanding school, we set aspirational targets for all pupils.



Target settings



Year groups

Rank order

- After every formal examination, pupils are ranked based on their attainment and progress results across all subjects.
- Positive competition encourages pupils to improve and monitor their own academic performances.

Year 9 Report

Example – Year 9

| Subject | Summer Exam Grade | End of KS4 Projection | End of KS4 Target | Progress Measure | CHABOP Progress Points | Comment | Classwork | Homework | Attendance | Behaviour | Organisation | Punctuality | CHABOP Assessment Points |
|---------|----------------------|--------------------------|-------------------|---------------------|---------------------------|---------|-----------|----------|------------|-----------|--------------|-------------|--------------------------------|
| English | 3 | 5 | 7 | Developi ng | 0 | | В | В | В | В | В | В | 60 |
| Maths | 6 | 8 | 7 | Extendin g | 2 0 | | А | А | Α | А | Α | Α | 12 0 |

<u>Summary</u>

- Pupils' progress are graded as either 'Extending', 'Secure' or 'Developing', in relation to their end of year targets.
- Pupils are graded in the form of numbers (9-1), with grade 9 being the best grade.
- Pupils are ranked termly based on their performances in attainment and progress.

Assessment and Grading System at Platanos College

Year 10 English













Both the Language and Literature GCSEs are examination only; there is no coursework

AQA English Language: 2 Papers

| Paper 1 Section A Reading | Paper 2 Section A Reading | | | | |
|---|---|--|--|--|--|
| Q1 4 marks List AO1 Q2 8 marks Language AO2 Q3 8 marks Structure AO2 Q4 20 marks Evaluate AO4 | Q1 4 marks True False AO1 Q2 8 marks Summary AO1 Q3 12 marks Language AO2 Q4 16 marks Compare AO3 | | | | |
| Paper 1 Section B Writing | Paper 2 Section B Writing | | | | |
| Q5 40 marks Describe Narrate | Q5 40 marks Speech Letter Article Leaflet Essay | | | | |

Both the Language and Literature GCSEs are examination only; there is no coursework

Edexcel English Literature: 2 Papers

Paper 1: Shakespeare and Post-1914 Literature 1 hour 45 minutes

Macbeth

Q1a: How does Shakespeare present.... In this extract...
Q1b Explain the importance of ... elsewhere in the play.

An Inspector Calls

A choice of two questions about the importance of a character or theme in the play as a whole Paper 2: 19th Century novel and Poetry since 1789 2 hours and 15 minutes

Jekyll and Hyde

Q1a: How does Stevenson present.... In this extract... Q1b Explain the importance of ... elsewhere in the novel.

Poetry Anthology

Compare how ... is presented in this poem and another poem of your choice

Unseen Poetry

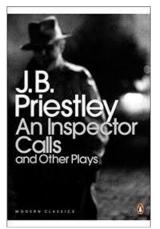
Compare how the writers present... in the two poems.

Pupils will study key GCSE skills

- Explaining inferences in detail, using relevant quotations
- Analysing vocabulary and language devices.
- Understanding the relationship between text and context.
- Comparing texts
- Spelling, punctuation and grammar
- Structural analysis
- Adapting the structure of their own writing for effect
- Adapting and selecting appropriate language devices for a range of audiences, text types and purposes

All pupils will be examined on these texts at the end of year 11

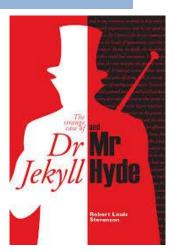




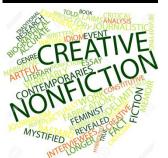


- Shakespeare's 'Macbeth'
- J. B. Priestley's 'An Inspector Calls'
- Edexcel Poetry Anthology
- Non-Fiction texts from 20th and 19th Centuries

In year 11, students will complete their study of Stevenson's 'Jekyll and Hyde'

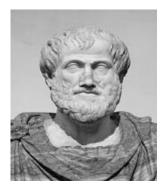


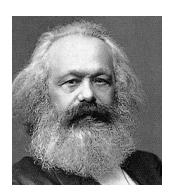


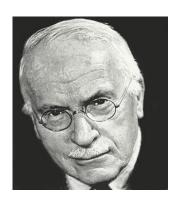


Critical Theorists

- Karl Marx
- Carl Jung
- Simone de Beauvoir
- Sigmund Freud
- Aristotle
- John Locke











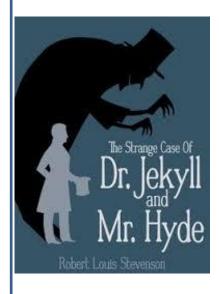


The exam board have said:

"It is imperative that students regularly read, if they are to meet the demands of the new exams."

Challenging content:

"Man is not truly one, but truly two. I say two, because the state of my own knowledge does not pass beyond the point... and I hazard a guess that man will ultimately be known for the mere polity of multifarious, incongruous, and independent denizens." Jekyll and Hyde – chapter 10



Reading and vocabulary

- Students need to read regularly
- 20 minutes three times a week
- Actively build vocabulary



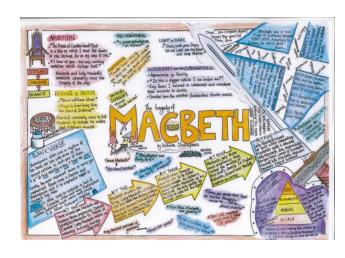
How can you help?

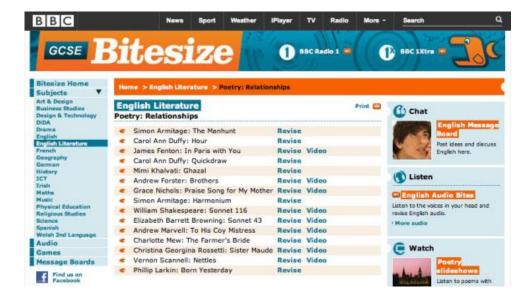
- -Help them choose their reading books and encourage them to challenge themselves
- -Listen to them read
- -Read to them
- -Discuss what their reading and discuss newspaper articles with them
- -Talk about and introduce them to new vocabulary

Become an expert















Platanos College Mathematics Department

| Area of trapezium = $\frac{1}{2}(a+b)h$ | | | | | | |
|--|--|--|--|--|--|--|
| Area of circle = πr^2 | | | | | | |
| Circumference of circle = $\pi d = 2\pi r$ | | | | | | |
| Volume of cuboid = lwh | | | | | | |
| Volume of prism = area of cross section × length | | | | | | |
| Volume of cylinder = $\pi r^2 h$ | | | | | | |
| Volume of pyramid = $\frac{1}{3}$ × area of base × h | | | | | | |
| Pythagoras' Theorem for a right-angled triangle where c is the hypotenuse: $a^2 + b^2 = c^2$ | | | | | | |
| Trigonometric ratios: $\sin x^{\circ} = \frac{\text{opp}}{\text{hyp}}$ $\cos x^{\circ} = \frac{\text{adj}}{\text{hyp}}$ $\tan x^{\circ} = \frac{\text{opp}}{\text{adj}}$ | | | | | | |
| Compound measures: Speed = $\frac{\text{distance}}{\text{time}}$ Density = $\frac{\text{mass}}{\text{volume}}$ Pressure = $\frac{\text{force}}{\text{area}}$ | | | | | | |

$$x = \frac{-b \pm \sqrt{(b^2 - 4ac)}}{2a}$$

Sine rule:
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine rule: $a^2 = b^2 + c^2 - 2bc \cos A$

Area of triangle = $\frac{1}{2}ab \sin C$

Aims

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Units to be completed in Year 10

| GCSE (9-1) Higher |
|-----------------------------------|
| |
| Unit 9 Equations and inequalities |
| Unit 10 Probability |
| |
| Unit 11 Multiplicative reasoning |
| |
| Unit 12 Similarly and congruence |
| Unit 13 More trigonometry |
| Unit 14 Further statistics |
| |
| Unit 15 Equations and graphs |
| Unit 16 Circle theorems |
| Unit 17 More algebra |

| GCSE (9-1) Foundation |
|----------------------------------|
| Unit 9 Graphs |
| Unit 10 Transformations |
| |
| Unit 11 Ratio and proportion |
| |
| Unit 12 Right-angled triangles |
| Unit 13 Probability |
| Unit 14 Multiplicative reasoning |
| |
| Unit 15 Constructions, loci and |
| bearings |
| Unit 16 Quadratic equations and |
| graphs |
| |

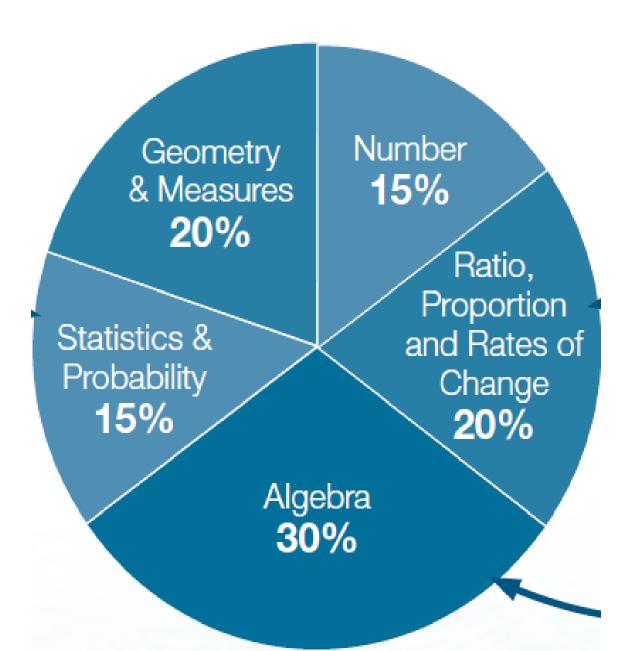
Unit 17 Perimeter, area and volume 2

| Higher | Foundation | | | |
|--|--|--|--|--|
| Solving quadratic equations using the | Coordinates | | | |
| formula | | | | |
| More complex quadratic equations | Mid-point of a line segment | | | |
| Completing the square | Linear graphs | | | |
| Simultaneous equations | Gradient of a line | | | |
| Solve simultaneous equations for real life | Find equations of straight line graphs | | | |
| situations | | | | |
| Use simultaneous equations to find the | Real life graphs | | | |
| equation of a line | | | | |
| Interpret real life situations in two | Distance-time graphs | | | |
| unknowns and solve them | | | | |
| Solve simultaneous equations with one | Translation | | | |
| quadratic | | | | |
| Use real life situations to construct | Reflection | | | |
| quadratic and linear equations and solve | | | | |
| them | | | | |
| Inequalities | Rotation | | | |
| | Enlargement | | | |
| | Combining transformations | | | |

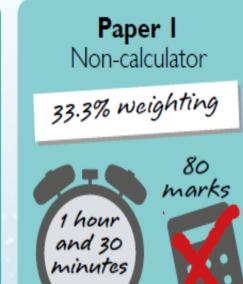
| Higher | Foundation | | | | |
|-------------------------------------|------------------------------------|--|--|--|--|
| Congruence | Right angled-triangles | | | | |
| Geometric proof and congruence | Pythagoras' theorem | | | | |
| Similarity | The sine ratio | | | | |
| Similarity in 3-D solids | The cosine ratio | | | | |
| Accuracy | The tangent ratio | | | | |
| Graphs of functions | Finding angles using trigonometry | | | | |
| Calculating areas and the sine rule | Finding lengths using trigonometry | | | | |
| The cosine rule | Problem solving | | | | |
| Solving problems in 3-D | | | | | |
| Transforming trigonometric graphs | | | | | |

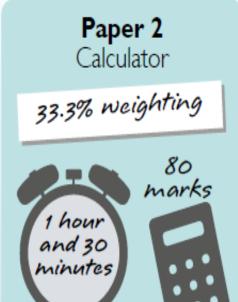
| Higher | Foundation |
|---|---|
| Solving simultaneous equations | 3D solids |
| graphically | |
| Graphical inequalities | Plans and elevations |
| Graphs of quadratic functions | Accurate drawings |
| Solving quadratic equations graphically | Scale drawing and maps |
| Graphs of cubic functions | Constructions |
| Radii and chords | Loci and regions |
| Tangents | Bearings |
| Angles in circles | Expanding double brackets |
| Applying circle theorems | Plotting quadratic graphs |
| Rearranging formulae | Using quadratic graphs |
| Algebraic fractions | Solving quadratic equations algebraically |
| Simplifying algebraic fractions | Factorising quadratic expressions |
| Surds | Circumference of a circle |
| Solving algebraic fraction equations | Area of a circle |
| Functions | Semicircles and sectors |
| Proof | Composite 2D shapes and cylinders |
| | Pyramids and cones |

Higher



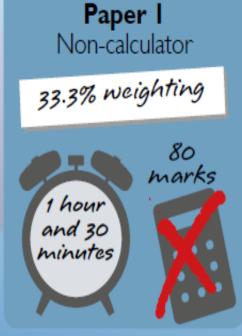
Foundation (grades 1-5)

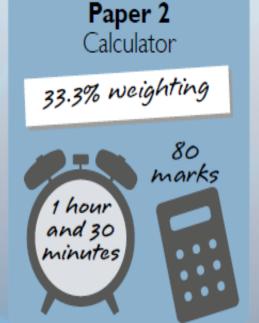






Higher (grades 4-9)



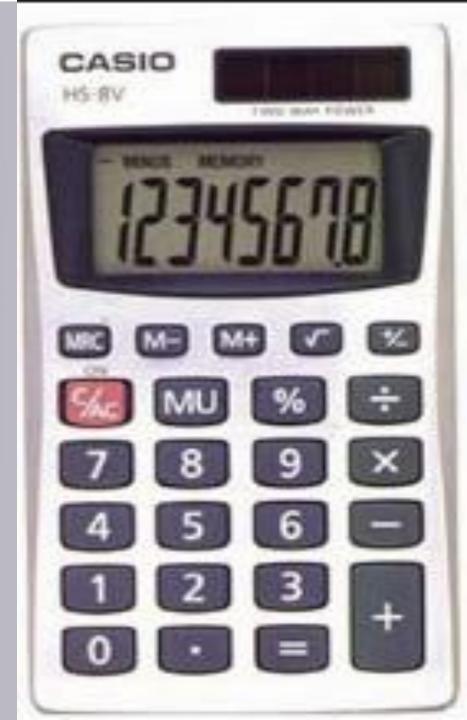


Paper 3
Calculator

33.3% weighting

80
marks
1 hour
and 30
minutes

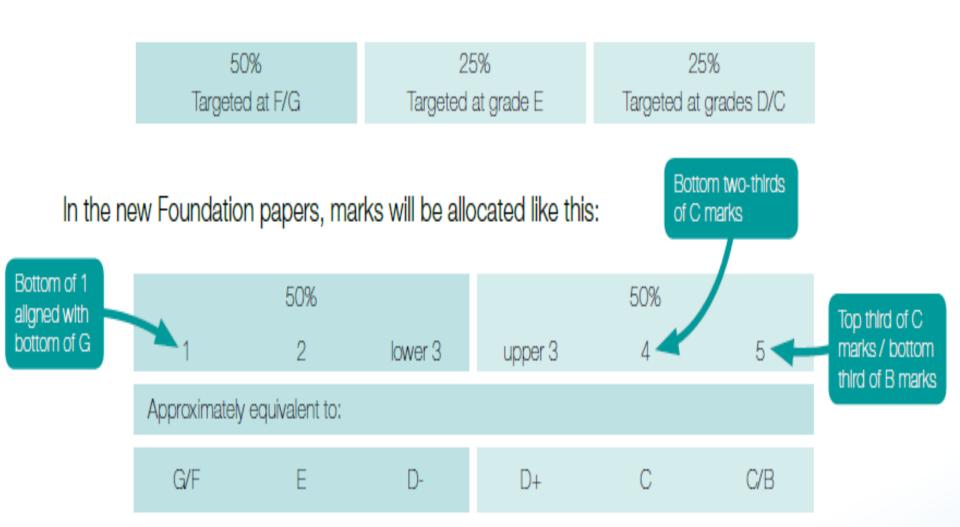
CASIO SCIENTIFIC CALCULATOR fx-82ES **NATURAL DISPLAY** Math A $\sqrt{12} \times \sqrt{6} \times \frac{\sqrt{3}}{2}$ 3/6 SHIFT ALPHA MODE SETUP log. log In sin tan RCL ENG SOD M+ INS OFF DEL AC 6 × DRG 0 $\times 10^{x}$ Ans



Foundation

Foundation papers now start at, and reach, a higher level.

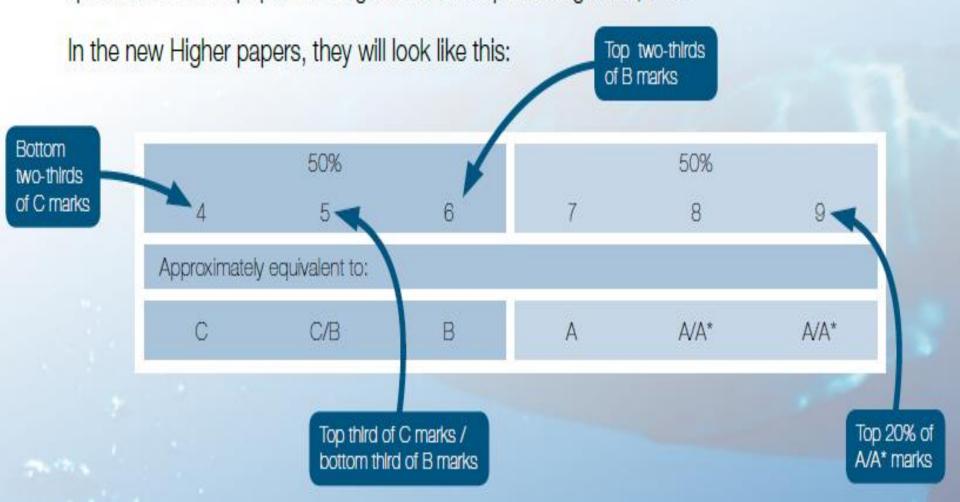
The marks on current Foundation papers are allocated like this:



Higher

Higher tier papers now start at a higher level than in the current GCSE, which starts at grade D.

The new Higher tier papers will cover 6 grades instead of 5, allowing for more differentiation at the top end of the grades. Previously, 25% of questions were targeted at A/A*, but now 50% of questions in each paper are targeted at the equivalent grades, 7–9.



Foundation and Higher tier

12 Ashten chooses three different whole numbers between 1 and 50

The first number is a prime number.

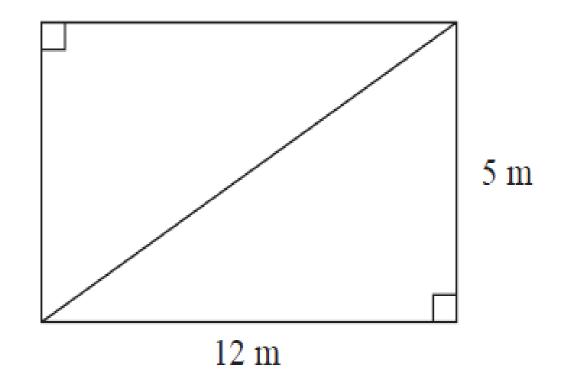
The second number is 4 times the first number.

The third number is 6 less than the second number.

The sum of the three numbers is greater than 57

Find the three numbers.

This rectangular frame is made from 5 straight pieces of metal.



The weight of the metal is 1.5 kg per metre.

Work out the total weight of the metal in the frame.

On Saturday, some adults and some children were in a theatre.

The ratio of the number of adults to the number of children was 5 : 2

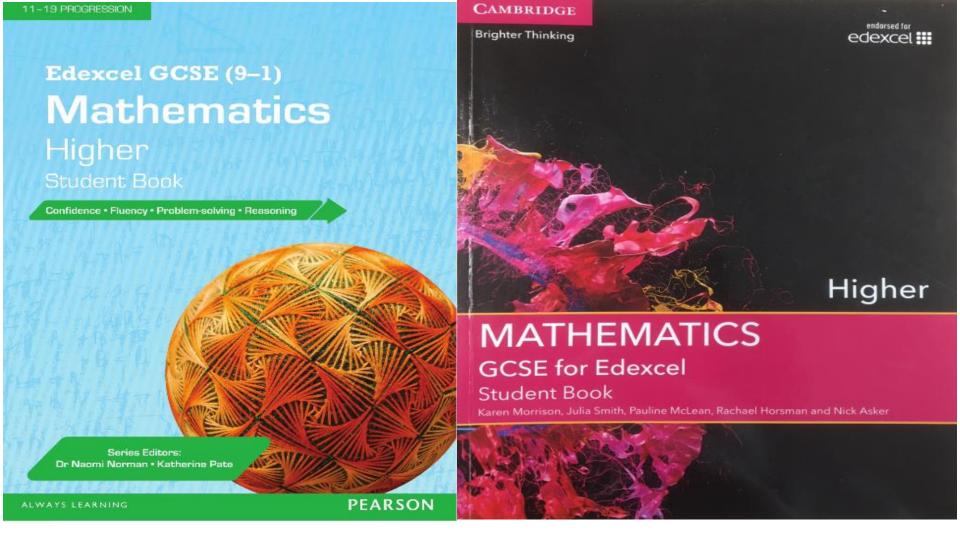
Each person had a seat in the Circle or had a seat in the Stalls.

 $\frac{3}{4}$ of the children had seats in the Stalls.

117 children had seats in the Circle.

There are exactly 2600 seats in the theatre.

On this Saturday, were there people on more than 60% of the seats? You must show how you get your answer.



PLATANOS COLLEGE



Welcome to year 9 curriculum evening

Science Department

Aims of the course

Students will be able to:

- Develop their understanding of the nature of science and its applications and the interrelationships between science and society
- •Develop and apply their knowledge and understanding of the scientific process through hypotheses, theories and concepts
- •Develop their understanding of the relationships between hypotheses, evidence, theories and explanations
- •Develop their awareness of risk and the ability to assess potential risk in the context of potential benefits
- •Develop and apply their observational, practical, enquiry and problem-solving skills and understanding in laboratory, field and other learning environments
- •Develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions
- •Develop their skills in communication, mathematics and the use of technology in scientific contexts.

Nature of new GCSE science curriculum

There is no coursework as part of the GCSE exams as of Summer 2018.

Each course (Triple Science and Combined Science: Trilogy) consists of a 100% written exam which will be taken at the end of year 11.

Route 1:Triple Science

-offers separate assessments of biology, chemistry and physics, each consisting of two written papers. Each paper is 50% of the GCSE.

Route 2: Combined science: Trilogy

-offers assessments combining biology, chemistry and physics, each consisting of two written papers. Each paper contributes 16.7% of the GCSE.

| Term 1 | Term 2 | Term 3 |
|---|---|--|
| B5: Communicable diseases | C4: Chemical calculations | P6: Molecules and matter |
| B6: Preventing and treating disease | C5: Chemical changes | P7: RadioactivityP9: Motion |
| B7: Non-communicable diseases | C6:Electrolysis | P10: Force and motion |
| ■ B9: Respiration | C7: Energy changesC14: The earth's | P11: Force and pressure |
| B10: The human nervous system | resources | |
| B11: Hormonal coordination | C15: Using our resources | |
| C3: Structure and bonding | | |

Skills to cover throughout the course

Analytical skills

- Analyse patterns
- Discuss limitations
- Draw conclusions
- Present data

Enquiry skills

- Collect data
- Devise questions
- Plan variables
- Test hypothesis

Communication skills

- Communicate ideas
- Construct explanations
- Critique claims
- Justify opinions

Problem Solving

- Estimate risks
- Examine consequences
- Review theories
- Interrogate sources

Nature of new GCSE science curriculum

Practical and mathematical skills will be taught during the course and will be assessed in the GCSE Exam.

Math skills

- Recognise and use expressions in decimal form
- Recognise and use expressions in standard form
- Use ratios, fractions and percentages
- Make estimates of the results of simple calculations

Required practical

 There are 10 required practical for biology, including the three needed for the standalone GCSE Biology qualification

 There are 8 required practical for chemistry, including the two needed for the standalone GCSE Chemistry qualification

• There are 10 required practical for physics, including the two needed for the standalone GCSE Physics qualification.

Structure of exam: Triple Science

Biology:

Paper 1:

Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.

Paper 2:

Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology

Written exam: 1 hour 45 minutes

Foundation and Higher Tier

100 marks

50% of GCSE

Type of Questions

Structure of exam: Triple Science

Chemistry:

Paper 1

Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

Paper 2:

Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

Written exam: 1 hour 45 minutes

Foundation and Higher Tier

100 marks

50% of GCSE

Types of Questions

Structure of exam: Triple Science

Physics:

Paper 1:

Topics 1-4: Energy; Electricity; Particle model of matter; and Atomic structure.

Paper 2:

Topics 5-8: Forces; Waves; Magnetism and electromagnetism; and Space physics.

Written exam: 1 hour 45 minutes

Foundation and Higher Tier

100 marks

50% of GCSE

Types of Questions

Structure of exam: Combined science: Trilogy

Biology

Paper 1:

Topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.

Paper 2:

Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

Written exam: 1 hour 15 minutes

Foundation and Higher Tier

70 marks

16.7% of GCSE

Types of Questions

Structure of exam: Combined science: Trilogy

Chemistry

Paper 1:

Topics 8–12: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes.

Paper 2:

Topics 13–17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.

Written exam: 1 hour 15 minutes

Foundation and Higher Tier

70 marks

16.7% of GCSE

Types of Questions

Structure of exam: Combined science: Trilogy

Physics

Paper 1:

Topics 18–21: Energy; Electricity; Particle model of matter; and Atomic structure.

Paper 2:

Topics 22–24: Forces; Waves; and Magnetism and electromagnetism

Written exam: 1 hour 15 minutes

Foundation and Higher Tier

70 marks

16.7% of GCSE

Types of Questions

The exams will measure how well students have achieved the following assessment objectives.

- AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.
- AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.
- AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

| Assessment objectives (AOs) | Component weightings (approx. %) | | | | Overall weighting (approx. %) | |
|-----------------------------|----------------------------------|---------|-----|--|----------------------------------|--|
| | Paper 1 | Paper 2 | | | | |
| AO1 | 37 – 43 | 37 – 43 | 40 | | | |
| AO2 | 37 – 43 | 37 – 43 | 40 | | | |
| AO3 | 17 – 23 | 17 – 23 | 20 | | | |
| Overall weighting | 50 | 50 | 100 | | | |

Equations that you must be able to recall and apply in your exam:

$$W = m g$$

2 work done = force \times 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 \times distance normal to direction of force M = F d

5 pressure = <u>force normal to a surface</u> area of that surface

$$p = F/A$$

6 distance travelled = speed × time

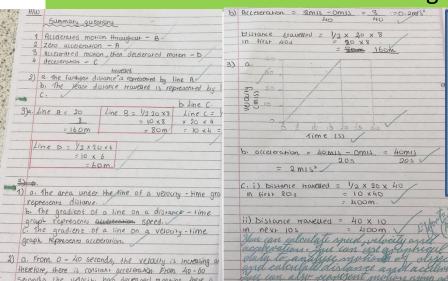
$$s = v t$$

Increase the pace of learning through acceleration

Use of graded success criteria:
Pupil begins with the activity
equivalent to their target and move
upwards.

| | AQA Bi | ology Student Checklist | B10 The human | n nervous system | 48 |
|--|--|--|--|--|------|
| Reflection 3 B. 40. 4 - Bith 3 Lam units long at grade 7 because 1 am able to apply lambelety | tere . | | Clare | - | |
| of entrymes and atmatis to explain in great and there of a self and there is no maintained. Himmoshamin in the regulation of internal conditions of a self and is general to maintain appropriate conditions in representative interpretation of a self-and internal and external drough. However, he may be the tending as here, and cold fluenchines. In the number booky homeost tends as here, and cold fluenchines. In the number booky homeost tends and address control of blood glacote conductor, buckly sumps. and | BIGS The stratum of Secretarian of Secretarian of the Secretarian of Secretarian o | Committee of the commit | Fig. 10pm sky risma stratined cost | Among the Among | 000 |
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| | The state of the s | ALCO CAN DE MANAGEMENT DE LA CONTRACTOR DE | 1 | | |
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Use of HOTs to stretch and challenge more able students



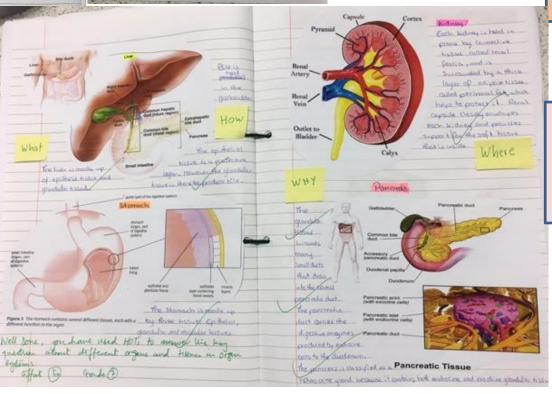
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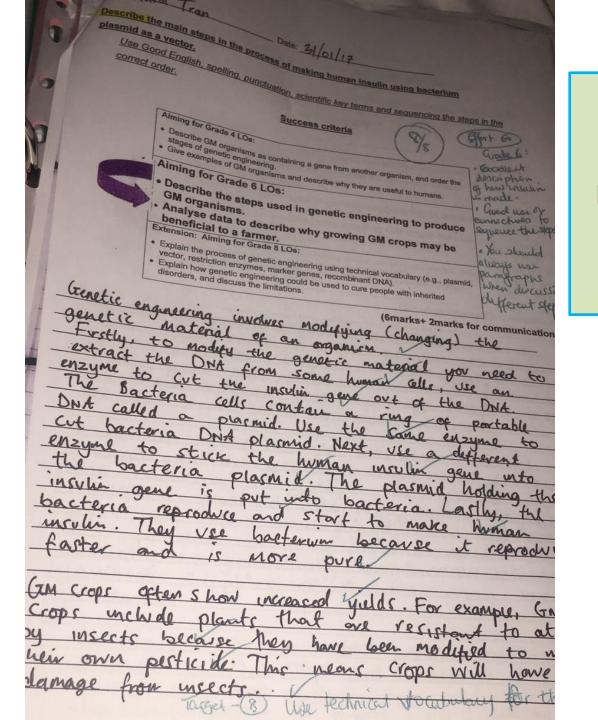
constant deceleration.

Pupils plan and execute more difficult calculations to provide more accurate results Problem -solving: This needs to be deconstructed-

- 1. Understanding and representing the problem.
- 2. Selecting or planning the solution.
- 3. Executing the plan
- 4. Evaluating the results.

Pupils used HOTs questioning grid to complete task.





Extended writing task

Parental support

Expectations

- 1. Encourage your child to give their best effort in both classwork and homework.
- 2. Ensure that your child has the necessary equipment to engage with the learning task effectively each day.
- 3. Have learning conversation with your child as to what they enjoy in lesson and what barriers may be hindering their progress.
- Encourage and motivate your child to always strive towards achieving and even outperforming their targets.
- 5. Encourage your child to attend booster class (to bridge gap in their knowledge) and Science centre of excellence (provide enrichment activities that stretch and challenge pupils and widen their knowledge and understanding of the application of science in the real world).