ST JAMES'
CATHOLIC HIGH SCHOOL

Welcome to our Year 11 Exam Preparation Evening

If you don't already follow us on Twitter then please do @StJamesCheadle

There is also lots of useful information on our website
http://www.stjamescheadle.co.uk/

ST JAMES'
CATHOLIC HIGH SCHOOL

GCSE English Language

Supporting your child's examination preparation

Examination dates

- Tuesday 2nd June – GCSE English Language Paper 1

  Start time: morning

  Duration: 1 hour 45 minutes

- Friday 5th June – GCSE English Language Paper 2

  Start time: morning

  Duration: 1 hour 45 minutes

AQA English Language Paper 1

Explorations in creative reading and writing

AQA English Language Paper 2

Writers' viewpoints and perspectives

Revision Plans

- We accessed AQA's enhanced results' analysis tool to identify areas of weakness in the 2019 examinations. We have used this information to make this year's revision plans focused on the target skills and questions that proved more challenging last year.
- Pupils have two English Language tasks per week to complete – they must hand their work to their English teacher in order to receive valuable feedback regarding what they are doing well and to identify any areas that are still in need of revision.

Revision Tips

- Read, read, read!

- Pupils MUST read actively, fiction and non-fiction, contemporary and historic, in order to engage with writers' methods, viewpoints and creative techniques.
- The question stems remain the same, only the sources change. This means that pupils can look at any text and apply exam style questions as active revision.

Useful websites

- Download the Guardian newspaper app – go to the ‘Opinions’ section.
- www.studywise.co.uk
- www.englishbiz.co.uk
- www.revisionworld.com
- www.thestudentroom.co.uk

Contact us

- All teaching staff email addresses are on the school's website

ST JAMES'
CATHOLIC HIGH SCHOOL

GCSE Mathematics

How to support your child in their examination preparation

Important dates:

- OCR Specification J560

- Paper 1 or 4 – Tuesday 19th May 2020 9am -10.30am
- (calculator allowed)

- Paper 2 or 5 – Thursday 4th June 2020 9am -10.30am
- (calculator NOT allowed)

- Paper 3 or 6 – Monday 8th June 2020 9am -10.30am
- (calculator allowed)

How to help your child revise:

- All students received a detailed breakdown of their areas of strength and areas to focus on based on their December examinations.
- These areas have been revised in class or in intervention sessions during the school day.
- After school every Red Friday Maths staff are available for additional help.
- It was made very cleat to students that the emphasis is on them to identify topics they are struggling with and to seek help if needed.

How to help your child revise:

- Following the March examinations, students will receive a second breakdown of their areas of strength and areas to focus on.

- With only 75 days to go until the first Maths exam, it is vital that class teachers and students target these areas.

	q1	q2	q3a	q3b	q4a	q4b	q5	q6	q7	q8a	q8b	q9	q10	q11	q12a	q12b	q13a	q13b	q14	q15	q16a	q16b	q17	q18	q19	
	Using a Calculator	Forming and Simplifying Ratios	Using Fraction Ratio Equivalence	Dividing into a ratio	Worded LCM Questions	LCM Assumption	Forming equations from worded question	Theoretical Probability	Circles Pythagoras and Perimeter	Describing Transformations	Mixed Transformations	Triangles and Parallel Lines	Compound Interest and Depreciation	Upper and Lower Bounds	Sequences	Using nth Term of a Sequence	Cumulative Frequency	Median From a Histogram	Speed Time Graph	Vectors	Proportionality	Direct and Inverse Proportion	Fractional and Negative Indices	Inequalities Regions	Solving Quadratics Using the Formula	
Max Mark	3	2	3	2	4	1	6	6	6	3	3	5	4	4	2	5	6	5	7	5	2	3	3	6	4	
Class Average (%)	86%	90%	65%	100%	60%	52%	56%	80%	78%	87%	67%	50%	70%	27%	85%	15%	73%	31%	43%	59%	29%	34%	52%	78%	77%	
AO Strand	1	1	1	1	1	2	1	2	3	1	2	1	1	1	1	1	1	2	2	2	2	1	2	1	1	
Number of Pupils Scoring Zero	4	3	5	0	7	15	2	0	1	2	9	4	4	13	3	26	1	16	2	3	20	19	13	0	2	Total
Name	q1	q2	q3a	q3b	q4a	q4b	q5	q6	q7	q8a	q8b	q9	q10	q11	q12a	q12b	q13a	q13b	q14	q15	q16a	q16b	q17	q18	q19	Marks
	3	2	1	2	0	0	2	6	6	3	0	2	2	0	1	0	2	0	1	3	0	0	1	6	0	43
	3	2	3	2	0	1	2	5	6	2	0	1	4	1	2	0	3	0	6	3	0	0	3	2	2	53
	3	2	3	2	4	0	6	6	6	3	3	5	4	4	2	5	6	5	6	4	2	3	3	6	4	97
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	3	2	0	2	0	0	2	6	5	2	3	1	0	1	2	0	3	0	1	2	0	3	0	5	3	46

With God all things are possible Matthew 19:26

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www.corbettmaths.com/contents

GCSE Higher Tier Checklist 9-1

Corbett maths

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GCSE Foundation Tier Checklist 9-1

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Corbett maths

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Parallel graphs - Video 196
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Changing the Subject - Video 7
Simultaneous Equations - Video 295
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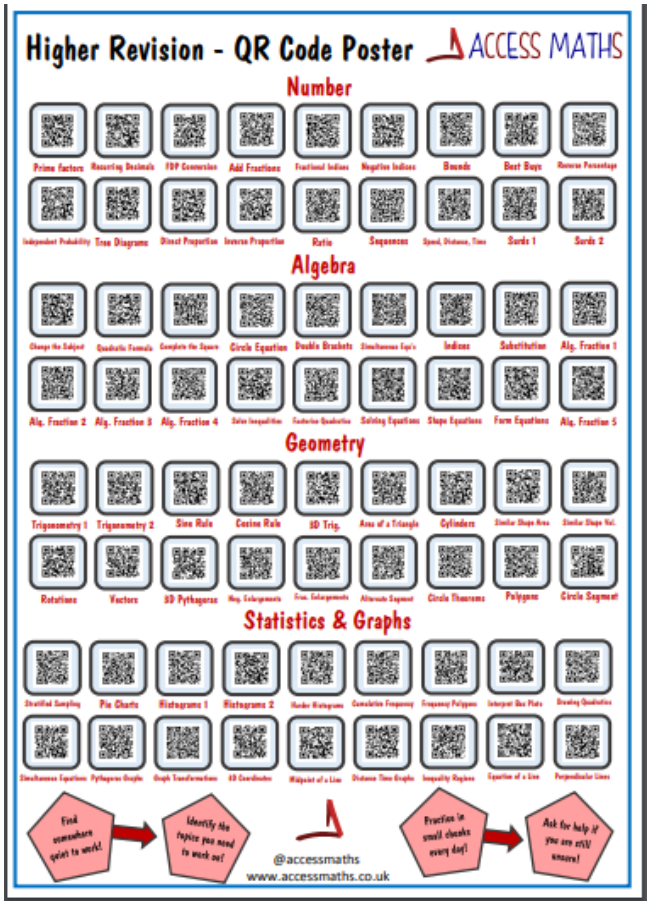
Higher Revision - QR Code Poster
ACCESS MATHS
Number
Prime Factors
Recurring Decimals
FDP Conversion
Add Fractions
Fractional Indices
Negative Indices
Bounds
Best Buys
Reverse Percentage
Independent Probability
Tree Diagrams
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Alg. Fraction 3
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Factorise Quadratics
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Similar Shape Area
Similar Shape Vol.
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Frac. Enlargements
Alternate Segment
Circle Theorems
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Circle Segment
Statistics & Graphs
Stratified Sampling
Pie Charts
Histograms 1
Histograms 2
Harder Histograms
Cumulative Frequency
Frequency Polygons
Interpret Box Plots
Drawing Quadratics
Simultaneous Equations
Pythagoras Graphs
Graph Transformations
3D Coordinates
Midpoint of a Line
Distance Time Graphs
Inequality Regions
Equation of a Line
Perpendicular Lines
Find somewhere quiet to work!
Identify the topics you need to work on!
Practice in small chunks every day!
Ask for help if you are still unsure!
@accessmaths
www.accessmaths.co.uk

Corbett Maths Blog

Message to Students sitting Paper 1 – 2019
GCSE Maths Revision Checklist 2019
YouTube Playlists 2019
Merry Christmas 2018
Christmas Competition
GCSE Maths Resits
Preparing for the Year Ahead
Edexcel Paper 3 – June 2018
AQA Paper 3 – June 2018
OCR Paper 3 – June 2018

Message to Students sitting Paper 2 – 2018
Edexcel Paper 2/3 – June 2018
AQA Paper 2/3 – June 2018
Message to Students sitting Paper 1 – 2018
Challenge Papers – 2018
Edexcel Paper 1 – May 2018
AQA Paper 1 – May 2018
GCSE Maths – Summer 2018 Resources

Revision plans

- Targeted questions bespoke to each class to address key areas.
- Questions include topics that students underperformed on in the December examinations.
- Questions are taken from exam papers and are revisited through the plans and in lessons.

Revision plans

- It is vital that students stick to these plans and they will be checked weekly by class teachers.

- Any difficulties need to be raised with the class teacher so they can be addressed within a lesson or at an after school revision session.

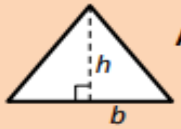
Revision tips

- The best way to revise maths is to ***do*** maths. Past papers help consolidate understanding, familiarise students with the style of exam questions and practise key skills.

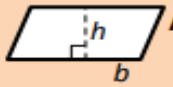
- Look in exercise books from Years 9, 10 and 11. There are key points, revision wheels and topic tests to help with recall.

- Use revision guides, Dr Frost, Corbett Maths regularly.

For GCSE (9-1) Mathematics, all students should know...



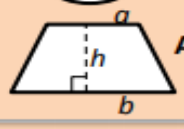
Area of triangle = ½ bh



Area of parallelogram = bh

Circumference of circle = $\pi d = 2\pi r$

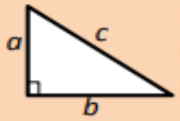
Area of circle = πr^2



Area of trapezium = ½ $(a + b)h$

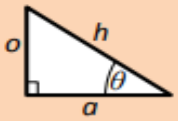
Volume of cuboids = length × width × height

Volume of prisms = length × area of cross section



For right-angled triangles, label the hypotenuse c & the other sides a and b

Pythagoras' theorem $a^2 + b^2 = c^2$



For right-angled triangles, label the hypotenuse h, the side adjacent to the angle a & the side opposite the angle o

sin $\theta = \frac{o}{h}$ **cos** $\theta = \frac{a}{h}$ **tan** $\theta = \frac{o}{a}$

speed = $\frac{\text{distance}}{\text{time}}$

density = $\frac{\text{mass}}{\text{volume}}$

Compound interest

Amount = $P\left(1 + \frac{r}{100}\right)^n$

where P is principal amount
r is interest rate
n is times interest applied

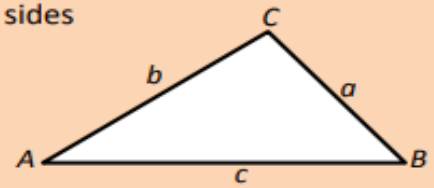
Probability P(A or B) = P(A) + P(B) – P(A and B)
where P(A) is the probability of outcome A
P(B) is the probability of outcome B

GCSE (9–1)
MATHEMATICS

OCR
Oxford Cambridge and RSA

For GCSE (9-1) Mathematics, Higher tier students should also know...

In any triangle ABC where a, b and c are the lengths of the sides



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

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

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

The quadratic formula

The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$

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

Probability

P(A and B) = P(A given B) P(B)

where P(A) is the probability of outcome A
P(B) is the probability of outcome B

GCSE (9–1)
MATHEMATICS

OCR
Oxford Cambridge and RSA

ST JAMES'
CATHOLIC HIGH SCHOOL

GCSE Triple and Combined Science

How to support your child in their examination preparation

Examination dates:

- Biology paper 1: 12th May
- Chemistry paper 1: 14th May
- Physics paper 1: 20th May

- Biology paper 2: 1st June
- Chemistry paper 2: 10th June
- Physics paper 2: 12th June

Why Science is such an important qualification

- We are surrounded by technology and the products of science every day. Public policy decisions that affect every aspect of our lives are based in scientific evidence. And, of course, the immensely complex natural world that surrounds us illustrates infinite scientific concepts. As children grow up in an increasingly technologically and scientifically advanced world, they need to be scientifically literate to succeed.
- Science covers how to think, learn, solve problems and make informed decisions. These skills are integral to every aspect of a student's education and life, from school to career.

How to help your child revise:

- Students need to ensure that they have acted upon the feedback given to them after the December and March mocks
- They follow their programme of study and revision plans and make sure they see their teachers for help well in advance of their examination date
- A clear emphasis needs to be placed upon learning all the **required practicals** that have taken place during the course.
- Mygcsescience.com
- Revision cards and past papers

Revision plans

For Combined Science, Students will be issued with two activities for each task

1. Educake quick response questions
2. A booklet of exam style questions

For Triple Science, there will be a bespoke activity for each task which is based on the examiner's report from the June 2019 exams

Revision plans

- It is vital that students stick to these plans and they will be checked weekly by class teachers.

- Any difficulties need to be raised with the class teacher so they can be addressed within a lesson or at an after school revision session.

Revision tips

- As Science is an application based subject, students should be using past paper example questions/papers to ensure they are familiar with the different requirements with certain command words.
- Focus on the mark schemes and what the examiner is looking for in different demand questions.
- Pace yourself to ensure you complete the test paper with time to look back at your answers.

- Students must be able to recall 23 equations in the physics exams and be able to rearrange them.

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 = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

- 7 equations will be given to them in the test but they must be able to use and rearrange them.

Equation number	Word equation	Symbol equation
1 HT	pressure due to a column of liquid = height of column × density of liquid × gravitational field strength (g)	$p = h \rho g$
2	(final velocity)^2 – (initial velocity)^2 = 2 × acceleration × distance	$v^2 - u^2 = 2 a s$
3 HT	force = $\frac{\text{change in momentum}}{\text{time taken}}$	$F = \frac{m \Delta v}{\Delta t}$
4	elastic potential energy = 0.5 × spring constant × (extension)^2	$E_e = \frac{1}{2} k e^2$
5	change in thermal energy = mass × specific heat capacity × temperature change	$\Delta E = m c \Delta \theta$
6	period = $\frac{1}{\text{frequency}}$	
7	magnification = $\frac{\text{image height}}{\text{object height}}$	
8 HT	force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density × current × length	$F = B I l$
9	thermal energy for a change of state = mass × specific latent heat	$E = m L$
10 HT	$\frac{\text{potential difference across primary coil}}{\text{potential difference across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}}$	$\frac{V_p}{V_s} = \frac{n_p}{n_s}$
11 HT	potential difference across primary coil × current in primary coil = potential difference across secondary coil × current in secondary coil	$V_s I_s = V_p I_p$
12	For gases: pressure × volume = constant	$p V = constant$

What they need for the test

Materials

For this paper you must have:

- a ruler
- a calculator
- the Physics Equation Sheet (enclosed).

Instructions

- Answer all questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want to be marked.

ST JAMES'
CATHOLIC HIGH SCHOOL

GCSE Religious Studies

How can you support your child in their examination preparation

Important dates:

Eduqas GCSE Religious Studies – Route B with Judaism

- Paper 1 – **Foundational Catholic Theology** (Monday 11th May)
- Paper 2 – **Applied Catholic Theology** (Tuesday 19th May)
- Paper 3 – **Judaism** (Friday 22nd May)

How to help your child revise:

- Large amount of knowledge – planning is essential.
- Check they are following the revision plan tasks.
- Exam questions – timed!
    - A) **State** (2 marks – 2 points – 2 minutes)
    - B) **Describe** (5 marks – 1 paragraph – 5 minutes)
    - C) **Explain** (8 marks – 2 paragraphs – 8 minutes)
    - D) **Evaluate** (15 marks – 3 paragraphs – 15 minutes)

Revision plans

- Content of entire course divided equally across the remaining weeks.
- Pupils will be tested each week on this, in addition to practice exam questions.
- Class teacher will advise if pupils have specific areas they need to focus on.

Revision tips

- **Timed questions**
- Self/Peer/Teacher mark questions
- Revision cards – knowledge test
- Sources – short quotes or accurate paraphrasing

…when in doubt: go back to Genesis!

Targeted Revision: Wednesdays after school on Red Week