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Welcome to Beckfoot Oakbank

Y11 Parent Power Hour
Thursday 13th October

creating remarkable schools

where no child is left behind

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Parent Power Hour

5:30pm-5:40pm Ms. Hart

5:40pm – 5:55pm Mr.Ray

5:55pm – 6:10pm Maths/Eng /Sci

6:10pm-6:15pm Mr. Delgado

6:15pm refreshments, Q&A, takeaways

OUR MISSION AND VALUES

To create a remarkable school where no child is left behind

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Our Values

enjoy We **enjoy** belonging to Beckfoot Oakbank.

learn We are all here to **learn**.

succeed We are determined to **succeed**.

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Our school sentence

Beckfoot Oakbank School ensured that every child succeeded in education, had a great career and enjoyed life.

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Our sixth form is good and one of the best performing in Bradford

creating remarkable schools

where no child is left behind

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Summer 2023 Exams

- No adaptations
- Full subject content
- No advanced information but
- Giving students formulae sheets in GCSE maths and revised equation sheets in GCSE combined science and physics.

118

school days

15th May 2023

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Academic outcomes do matter- they give our students choices.

Attendance in Year 11 directly impacts on the grades achieved.

Mock examinations &
How to help students revise
Mr. Ray

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Mock examination series

Why we do mocks?

- Preparation – exam routines, revision, receiving results
- Where students are working

Mock Examinations, 2 weeks 31st October – 11th November
31 exams
45 minutes - 120 minutes
3 maths papers, 2 English papers, 3 science papers

11 weeks → Data, intervention cycle

Mock examinations, 2 weeks 20th February – 27th February

8 weeks → Data, intervention cycle

Public examinations GCSEs 15th May

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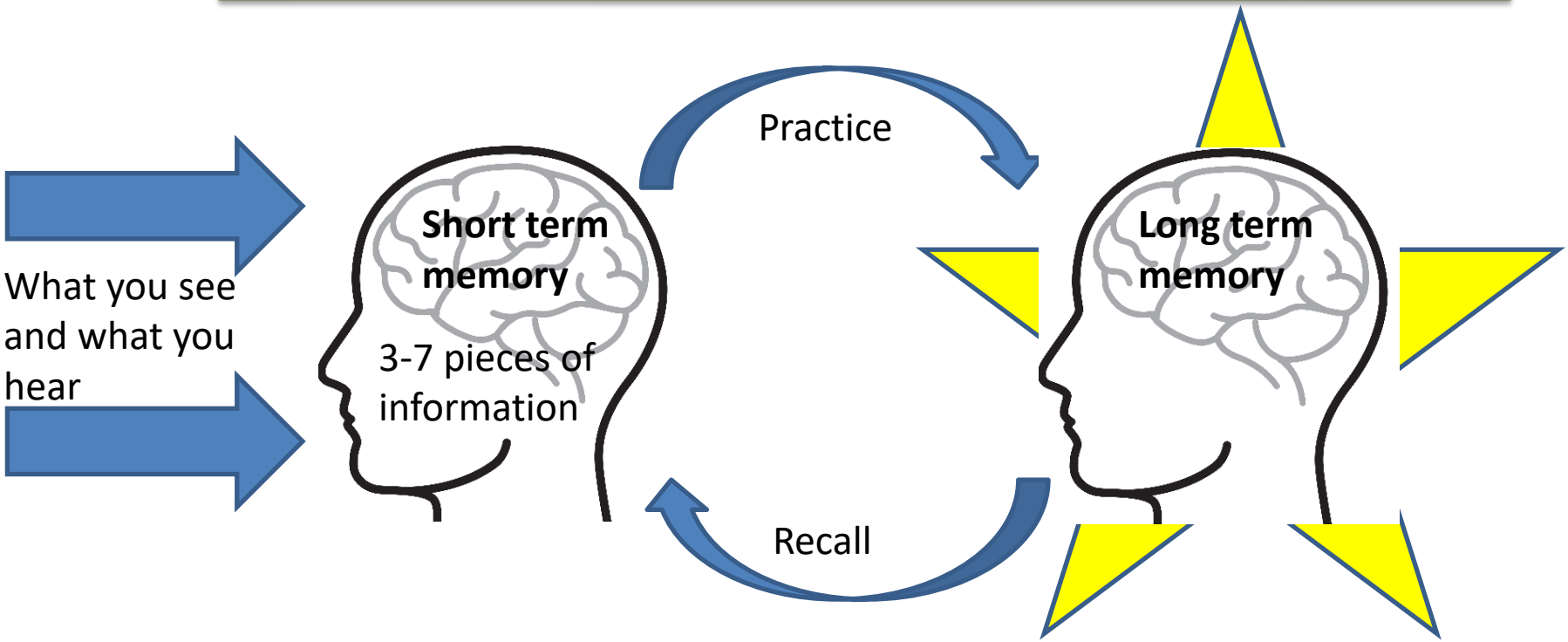
Some facts about our brain…



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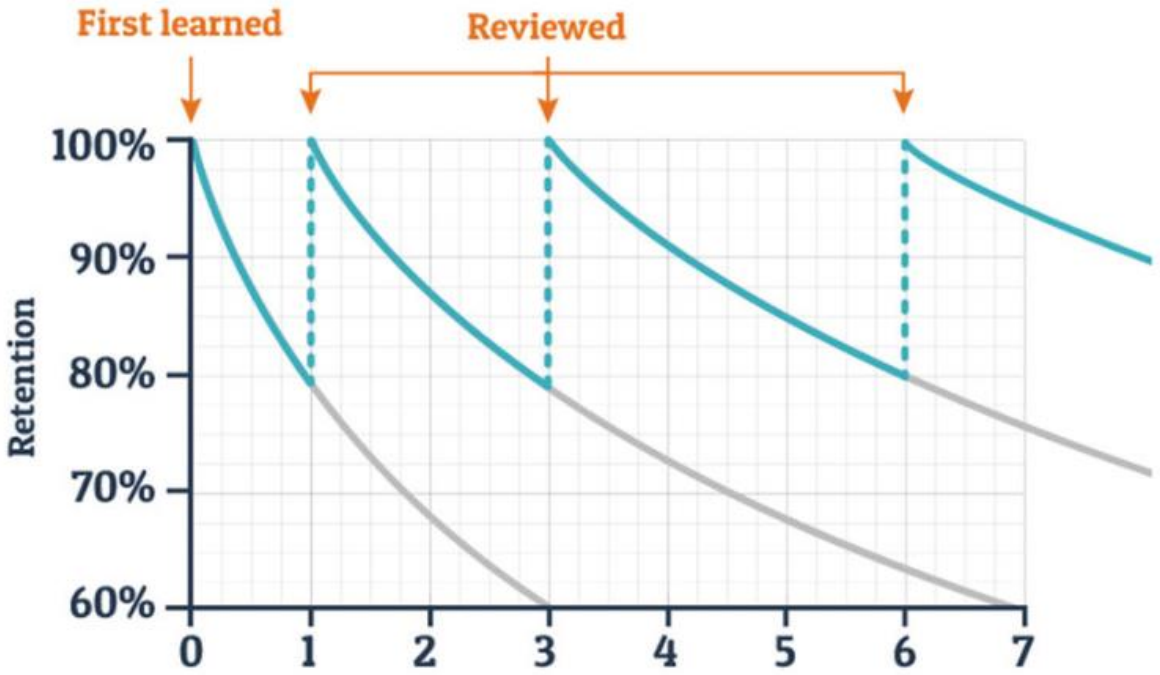
And even if you do remember…



you'll forget quickly!!

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Revision

Organise – timetable, place, make it easy
Be realistic

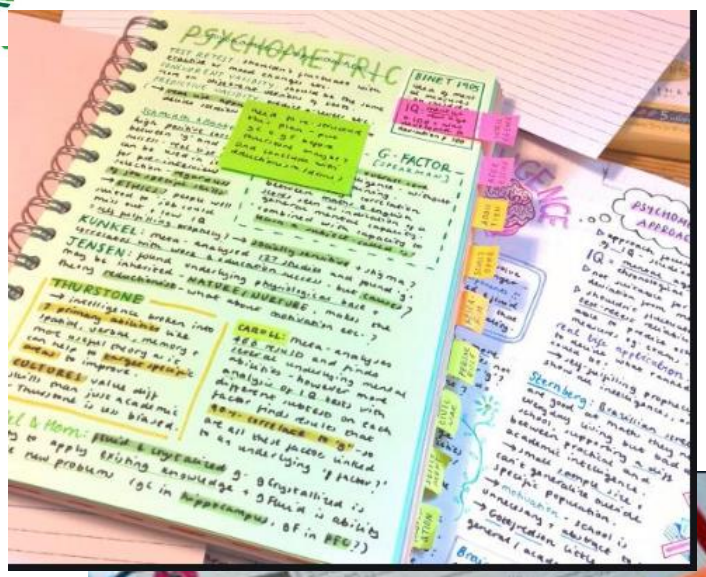
Day	4pm	5pm	6pm	7pm	8pm	9pm	10pm
Mon							
Tues							
Wed							
Thurs							
Fri							

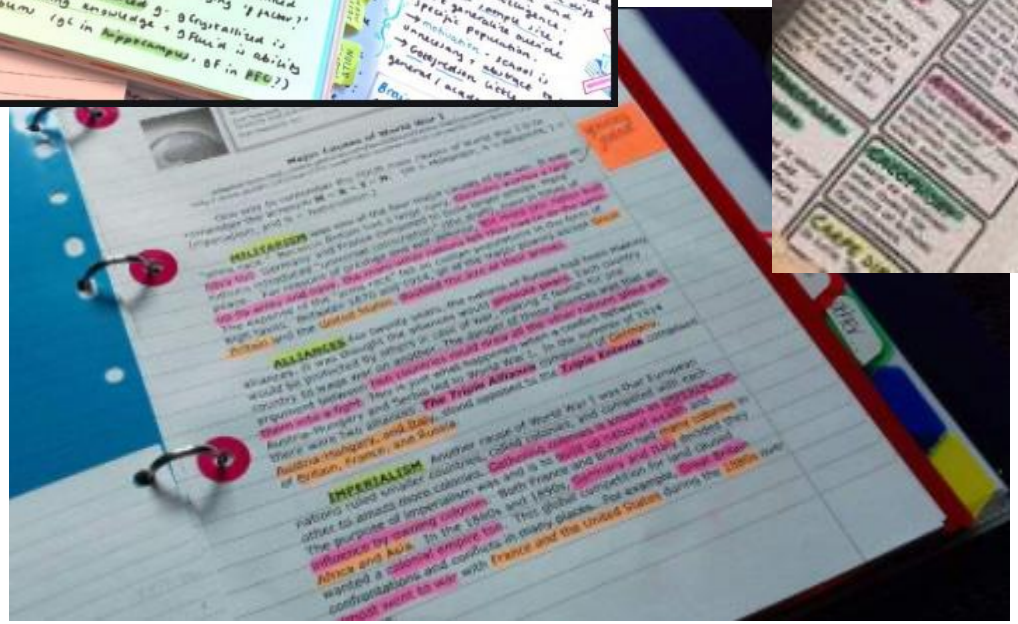
Candidate Number : 7688
UCI : 372240207688C
Reg Group : 10DOC
ULN : 9101691685

Special Arrangements required

Date	Start Time	Board	Level	Element Code	Element Title	Component Code	Component Title	Duration	Room	Seat
Mon 17 May	8:45AM	DOM	Locl/B	Y10ENG	Y10 ENGLISH LANGUAGE MOCK	Y10ENG	Y10 ENGLISH LANGUAGE MOCK	1h 45m	SPORTS HALL	T9
Mon 17 May	1:30PM	DOM	Locl/B	Y10END	Y10 ENGINEERING DESIGN MOCK	Y10END	Y10 ENGINEERING DESIGN MOCK	1h 30m	SPORTS HALL	T11
Tue 18 May	8:45AM	DOM	Locl/B	8300F	Mathematics Tier F	8300/1F	Mathematics Paper 1 Tier F	1h 30m	SPORTS HALL	T9
Wed 19 May	1:30PM	DOM	Locl/B	Y10GEO	Y10 GEOGRAPHY MOCK	Y10GEO	Y10 GEOGRAPHY MOCK	1h 30m	SPORTS HALL	T10
Fri 21 May	8:45AM	DOM	Locl/B	B1F	Paper 1: Biology 1 Tier F	8464/B/1F	Paper 1: Biology 1 Tier F	1h 15m	SPORTS HALL	T10
Mon 24 May	8:45AM	DOM	Locl/B	C1Fdn	Paper 3: Chemistry 1 Tier F	8464/C/1F	Paper 3: Chemistry 1 Tier F	1h 15m	SPORTS HALL	T10
Tue 25 May	8:45AM	DOM	Locl/B	P1Fdn	Paper 5: Physics 1 Tier F	8464/P/1F	Paper 5: Physics 1 Tier F	1h 15m	SPORTS HALL	T10
Wed 26 May	1:30PM	DOM	Locl/B	21217L	Unit : Principles of Training.	21217L	Unit : Principles of Training. Nutrition.....	1h 00m	SPORTS HALL	P13

Revision





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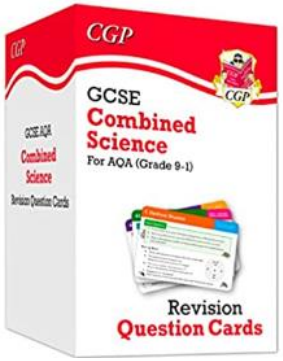
Revision

Front

What is the capital of Australia?

Back

Canberra



kerboodle

SENECA

AnkiApp

Anki

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How we learn and remember

Transform It

Turn **facts into images**. Then use the images to rewrite the facts.

Recreate It

Recreate **diagrams**, maps or images – first by copying from the sheet, eventually moving on to recalling entirely from memory.

Prioritise It

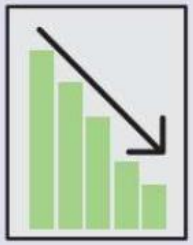
Identify the **top three** most important pieces of content on the sheet – **justify** your reasons (explain why).

Be a Photocopier

On a blank piece of paper, **recreate** as much of the organiser as you can. When you have done all you can, **green pen** it by using the original to add what you couldn't recall.

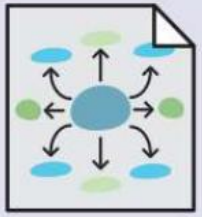
Reduce It

Summarise content into single words. Then use these words to rewrite the content.



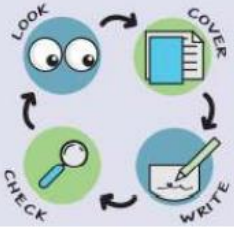
Mind-map It

Choose a section of the knowledge organiser to **mindmap** from memory. Add categories, colour, questions and layers of thinking about the information.



Look, Cover, Write, Check

Choose a section and **look**, trying to remember it. **Cover** it up. **Write** it out. **Check** what you missed and add it in **green pen**.

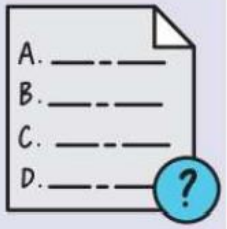


Connect It

Find **connections** between ideas, vocabulary or facts on the knowledge organiser. How many connections can you find between them?

Quiz It

Write yourself a **quiz** based on the KO. Come back to it another day and see if you can answer it from memory. **Red pen** your answers.



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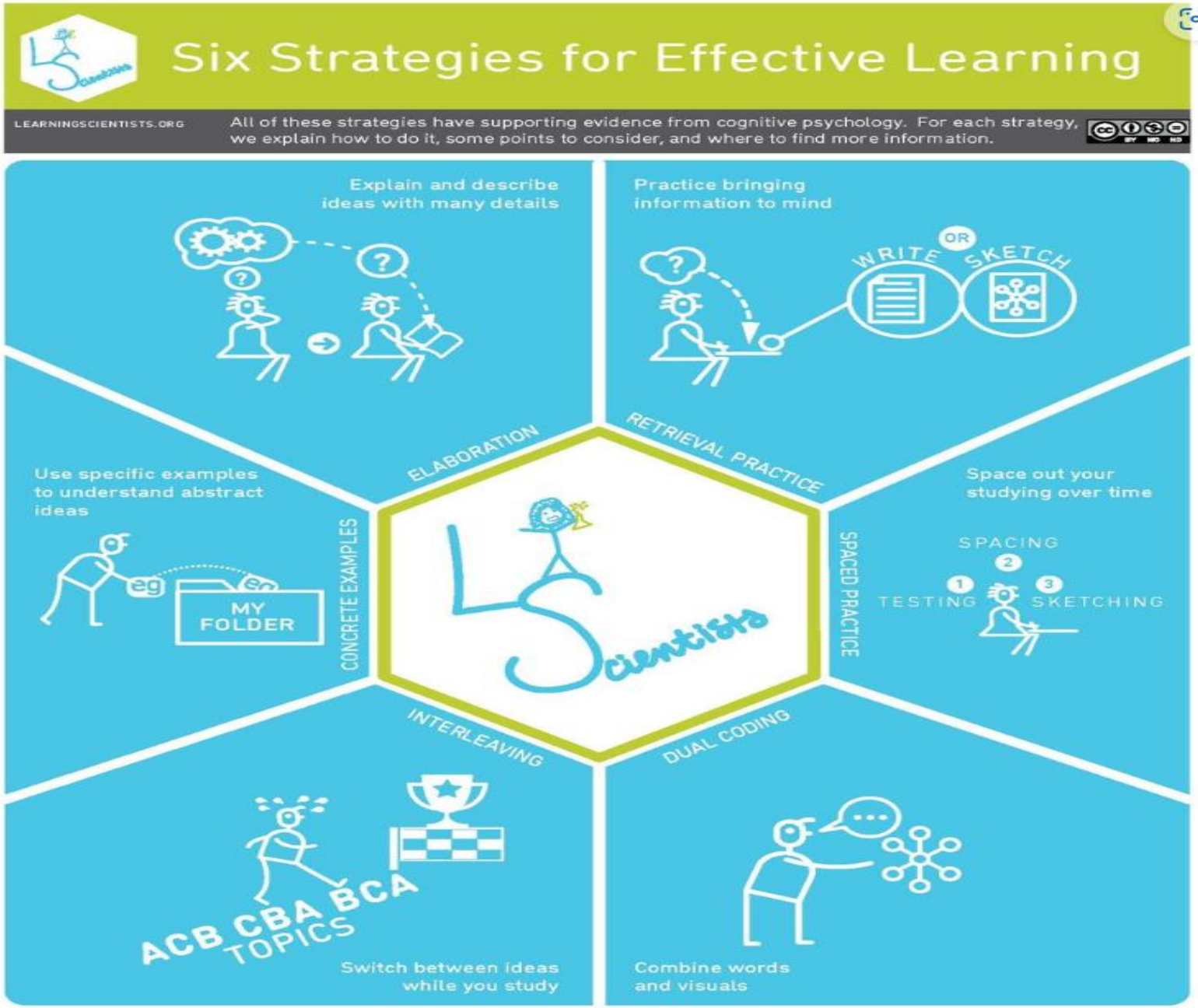
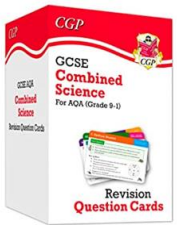
How we learn and remember



Why they work?



gcsepod

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What you see and what you hear

Short term memory

3-7 pieces of information

Practice

Recall

Long term memory

Transform It
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Building relationship

Emotions

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's | Future-ready Learners

How we learn and remember

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Year 11

Mock examinations 1

Oct 31st – 11th Nov

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Assessment Information

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Year 11 Mock exam timetable – week 1				
Date	**Start**	**Duration**	**Code**	**Title**
Mon 31 Oct	10:20	01:00	8702-2	Eng Lang-Paper 2:Section A
Mon 31 Oct	13:00	01:00	21117K	BTEC H&SC Unit 3: Health and wellbeing
Mon 31 Oct	**13:40**	01:00	21123K	BTEC PA Component 3: Ideas Log
Tue 01 Nov	10:20	01:30	8300/1F	Mathematics Paper 1 Tier F
Tue 01 Nov	10:20	01:30	8300/1H	Mathematics Paper 1 Tier H
Tue 01 Nov	13:00	01:30	803501	Paper 1:Living with the Physical Environment
Wed 02 Nov	10:20	01:15	8464/B/1H	Paper 1: Biology 1 Tier H
Wed 02 Nov	10:20	01:15	8464/B/1F	Paper 1: Biology 1 Tier F
Wed 02 Nov	13:00	02:00	21429K	BTEC Enterprise 3: Promotion and Finance
Thu 03 Nov	10:20	01:00	8702/2	Eng Lit Paper 2: Modern Texts and Poetry
Thu 03 Nov	13:00	02:00	8145-1	History Paper 1AD: America, 1920-1973
Fri 04 Nov	10:20	01:15	8464/C/1F	Paper 3: Chemistry 1 Tier F
Fri 04 Nov	10:20	01:15	8464/C/1H	Paper 3: Chemistry 1 Tier H

Faculty: **Maths**

What will my assessment look like?

One Non-calculator paper and two calculator papers. 90 minutes each.
A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as you progress through the paper.

What do I need to revise?

Foundation

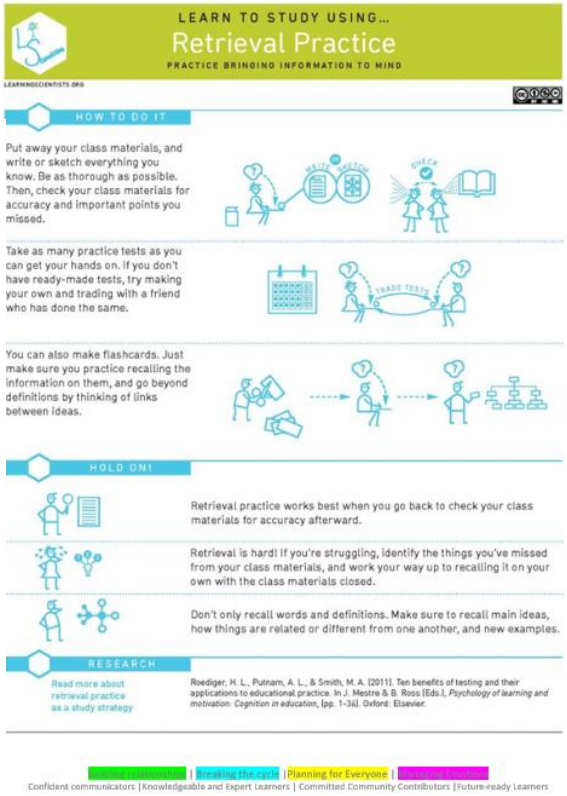
You will be tested across the 6 strands of the Maths specification:
1 Number
2 Algebra
3 Ratio, proportion and rates of change
4 Geometry and measures
5 Probability
6 Statistics

Higher

You will be tested across the 6 strands of the Maths specification:
1 Number
2 Algebra
3 Ratio, proportion and rates of change
4 Geometry and measures
5 Probability
6 Statistics

What can I revise from?

AQA Website: www.aqa.org.uk
Past Papers and Mark Schemes available.
www.mymaths.co.uk
Login: Oakbank Password: Obtuse
www.corbettmaths.com
Free worksheets; exam questions; videos
Notes from class, resources in Class Materials from Teams



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English Support for Year 11

Miss Finlay

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GCSE English Language – 1hr 45m	
Paper 1 – fiction Q1 – retrieval (4 marks) Q2 – language analysis (8) Q3 – structure analysis (8) Q4 – evaluation (20) Q5 – narrative writing (40)	
Paper 2 – non-fiction Q1 – True/false (4 marks) Q2 – summary (8) Q3 – language analysis (12) Q4 – comparison (16) Q5 – persuasive writing (40)	

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GCSE English Language – 1hr 45m	
Paper 1 – fiction Q1 – retrieval (4 marks) Q2 – language analysis (8) Q3 – structure analysis (8) Q4 – evaluation (20) Q5 – narrative writing (40)	Year 10 mock June ‘22
Paper 2 – non-fiction **Q1 - True/false (4 marks)** **Q2 - summary (8)** **Q3 - language analysis (12)** **Q4 - comparison (16)** Q5 – persuasive writing (40)	Year 11 mock Nov ‘22

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GCSE English Language – 1hr 45m		GCSE English Literature	
Paper 1 – fiction Q1 – retrieval (4 marks) Q2 – language analysis (8) Q3 – structure analysis (8) Q4 – evaluation (20) Q5 – narrative writing (40)	Year 10 mock June '22	**Paper 1** Romeo and Juliet – (34 marks)	
		Paper 1 A Christmas Carol – (30)	
Paper 2 – non-fiction **Q1 - True/false (4 marks)** **Q2 - summary (8)** **Q3 - language analysis (12)** **Q4 - comparison (16)** Q5 – persuasive writing (40)	Year 11 mock Nov '22	**Paper 2** An Inspector Calls – (34)	
		Paper 2 Poetry anthology and unseen poetry (62)	

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GCSE English Language – 1hr 45m		GCSE English Literature	
Paper 1 – fiction Q1 – retrieval (4 marks) Q2 – language analysis (8) Q3 – structure analysis (8) Q4 – evaluation (20) Q5 – narrative writing (40)	Year 10 mock June '22	**Paper 1** Romeo and Juliet – (34 marks)	Nov 22
		Paper 1 A Christmas Carol – (30)	
Paper 2 – non-fiction **Q1 – True/false (4 marks)** **Q2 – summary (8)** **Q3 – language analysis (12)** **Q4 – comparison (16)** Q5 – persuasive writing (40)	Year 11 mock Nov '22	**Paper 2** An Inspector Calls – (34)	June 22
		Paper 2 Poetry anthology and unseen poetry (62)	

Revision	
English Language – they need to know • the core skills required for every question	

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Revision	
English Language – they need to know • the core skills required for every question	
English Language – revision sources • Their exercise book • Home learning on Teams • GCSE Bitesize – paper 2	

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Revision	
English Language – they need to know • the core skills required for every question	English Literature – they need to know • the plot – they need to know what happens when, what the characters know and what the audience know • the key themes – love, fate, conflict, death, relationships • the key characters • the structure of an essay
English Language – revision sources • Their exercise book • Home learning on Teams • GCSE Bitesize – paper 2	

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Revision	
English Language – they need to know • the core skills required for every question	English Literature – they need to know • the plot – they need to know what happens when, what the characters know and what the audience know • the key themes - love, fate, conflict, death, relationships • the key characters • the structure of an essay
English Language – revision sources • Their exercise book • Home learning on Teams • GCSE Bitesize – paper 2	English Literature – revision resources • their exercise book • their Romeo & Juliet script & revision guide • Home learning on Teams • Rewatching the play – on Teams • GCSE Bitesize

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If you have any questions, please email

nf@beckfootoakbank.org

and we will be happy to help.

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Science Support for Year 11

Mrs.Humpherson

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Structure of Course / Exams

- *Courses at Beckfoot Oakbank:*
  AQA Science trilogy Foundation Tier
  AQA Science trilogy Higher Tier

- 6 exams for all students.

  Biology Paper 1, Biology Paper 2
  Chemistry paper 1, Chemistry paper 2
  Physics Paper 1, Physics Paper 2

- Exams are 1 hour 15 mins

Exam	Content
Biology 1	1 Cells 2 Organisation 3 Infection and response 4 Bioenergetics Working scientifically
Biology 2	5 Homeostasis & response 6 Inheritance variation & evolution 7 Ecology Working scientifically
Chemistry 1	1 Atomic structure & periodic table 2 Bonding 3 Quantitative Chemistry 4 Chemical changes 5 Energy Changes Working scientifically
Chemistry 2	6 Rates of reaction 7 Organic Chemistry 8 Chemical analysis 9 Chem of atmosphere 10 Using resources Working scientifically
Physics 1	1 Energy 3 Electricity 3 Particle model of matter 4 Atomic Structure Working scientifically
Physics 2	5 Forces 7 Magnetism and electromagnetism 6 Waves Working scientifically

To help students revise for November mocks

iXIL

CSE bitesize

evision guide / flashcards

3 Quick Quiz questions

nowledge organisers: Read cover write check

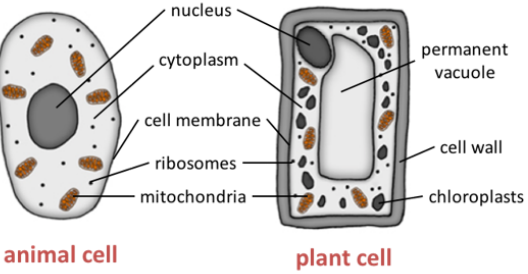
hysics data Sheet / Numeracy help sheet.

To help students revise for November mocks

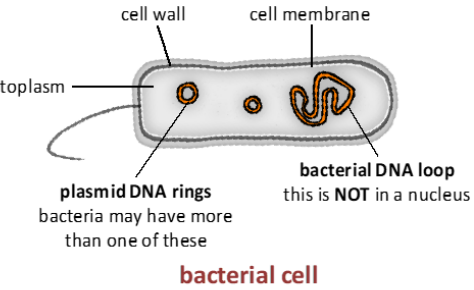
iXIL KNOWIT booklets to complete – FT

GRASPIT HT or higher grade FT.

Cell structure part 1 - Animal, plant cells and bacterial cells



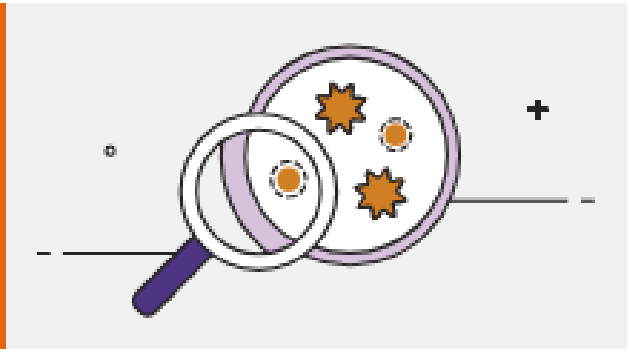
You will need to know the differences between plant, animal and bacterial cells.

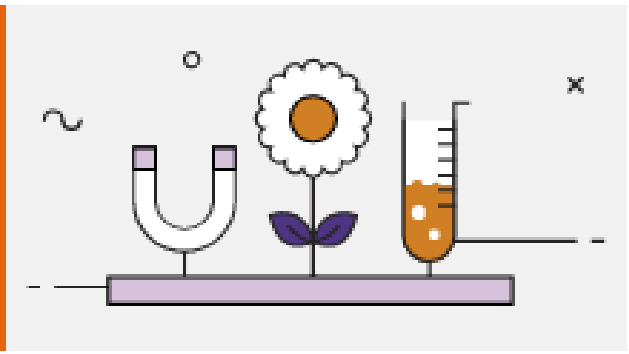


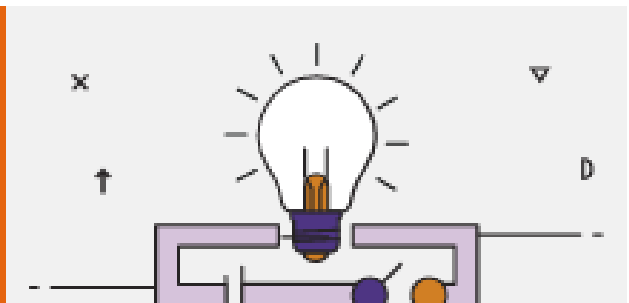
Bacterial cells are much smaller than plant and animal cells.

6. Copy and complete the table and tick the correct column f

Cell part	Function	Animal
	Contains genetic material, which controls the activities of the cell	
Cytoplasm		
	Controls the movement of substances into and out of the cell	
	Most energy is released by respiration here	
Ribosomes	Protein synthesis happens here	
	Strengthens the cell – made of cellulose	
Chloroplasts		
	Filled with cell sap to help keep the cell turgid	
	Loop of DNA NOT found in a nucleus	
Plasmid (DNA)		







BBC Bitesize

AQA Synergy >	AQA Trilogy >	CCEA Double Award >	Edexcel >
Eduqas >	OCR 21st Century >	OCR Gateway >	

gy (Combined
ce) >

Cell biology

Organisation

Infection and response

Bioenergetics

Homeostasis and response

Inheritance, variation and evolution

Ecology

Practical skills

Revise | Video | Test

Sign in, save time

We'll remember what you've looked at so you can jump back in.

Sign in or Register to personalise your Bitesize now.

< 1 2 3 4 5 6 7 8 9 10 11 12 >

Cell measurement

More Guides

- Cell structure - AQA
- Cell division - AQA >
- Transport in cells - AQA >
- Sample exam questions - Cell biology - AQA >

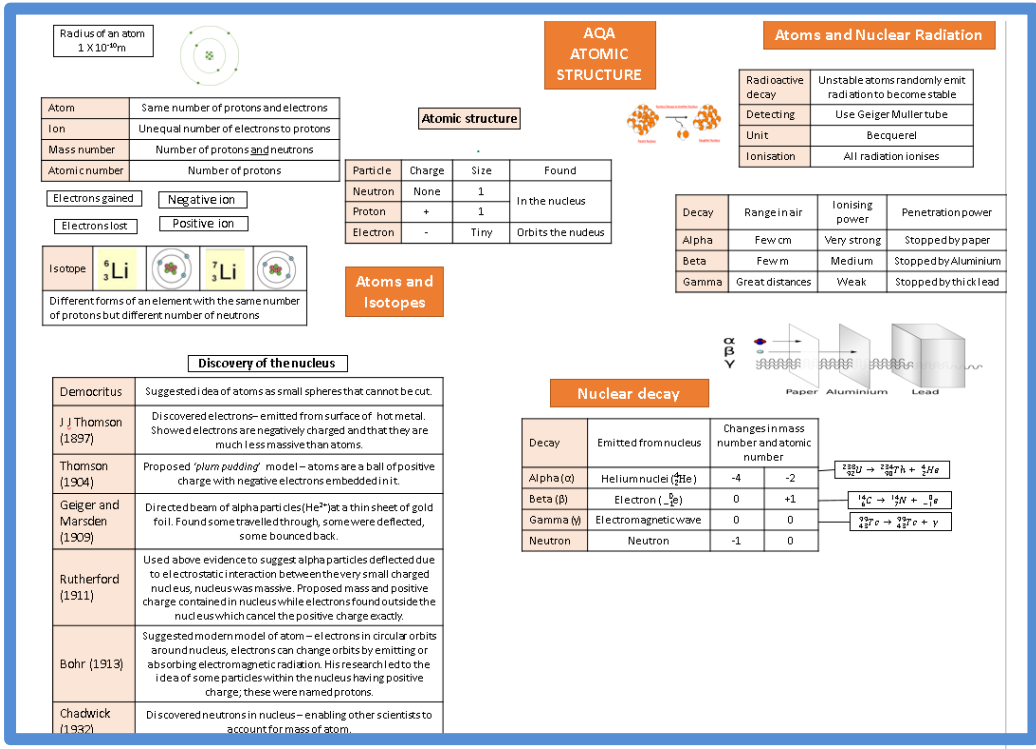
Struggling to get your head round revision and exams?

Our team of exam survivors will get you started and keep you going.

Meet them here

A3 Quiz sheet / Knowledge Organiser

	P3 Particle Model of Matter PHYSICS PAPER 1		
1	How much mass a substance contains compared to it's volume is...	1	density
2	State the equation which links density, mass and	2	denisty = mass/ volume,
3	Name the change of state when a liquid becomes a	3	freezing
4	Name the change of state when a solid becomes a	4	melting
5	Name the change of state when a liquid becomes a gas	5	evaporation
6	Name the change of state when a gas becomes a liquid	6	condensation
7	Name the change of state when a solid becomes a gas (without passing through liquid form)	7	sublimation
8	Changes of state are caused by the amount of a substance has	8	energy
9	State changes are examples of change	9	physical
10	Physical changes are ones which can be	10	reversed
11	A change which creates new products and cannot be reversed is change	11	chemical
12	The energy stored inside a system by the particles which make it up is known as energy	12	internal
13	What is internal energy?	13	The total kinetic energy + tota potential energy of all the particles in a system
14	Energy stored within moving objects is	14	kinetic
15	Energy stored in particles because of their position is...?	15	potential energy
16	Particles wich are further apart have _____ potential energy	16	more
17	The energy needed to raise the temperature 1 kg of a material by 1°C is the	17	specific heat capacity, c
18	The average kinetic energy of particles is known as the	18	temperature
19	The amount of energy required to change the state of one kilogram of a substance with no change in temperature is the ...?	19	specific latent heat, c
20	Latent heat of fusion is for changing...?	20	solid to liquid
21	Latent heat of vaporisation is for changing....?	21	liquid to vapour (gas)
22	Increasing temperature _____ pressure in a gas if volume is constant	22	increases
23	The force exerted by gas on a surface as the particles collide with it is known as....?	23	gas pressure
24	State the units of density	24	kg/m³
25	State the units of volume	25	ml or m³
26	Why doesn't temperature increase during melting?	26	Energy is being used to weaken forces between
27	Why doesn't temperature increase during evaporation	27	Energy is being used to weaken forces between
28	Why does temperature of a substance increase as it is heated?	28	Particles gain more kinetic energy and temperature is a measure of kinetic energy
29	Particles are arranged regularly in a ....?	29	solid
30	Particles are arranged randomly, but touching in a ...?	30	liquid
31	Particles move around randomly in a ....?	31	gas
32	Latent Heat	32	Energy needed to change the state of 1kg or material without changing the



endix B: Physics
ons

AQA formula sheet

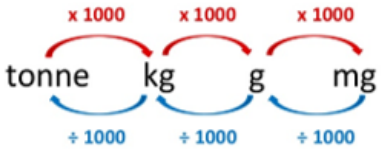
problems, students should be able to recall and apply the following
lard SI units.

Higher Tier papers only are indicated by HT in the left-hand column.

ation	Symbol equation
ass × gravitational field strength (g)	$W = m\,g$
= force × distance line of action of the force)	$W = F\,s$
ed to a spring = spring constant × extension	$F = k\,e$
avelled = speed × time	$s = v\,t$
n = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
orce = mass × acceleration	$F = m\,a$
n = mass × velocity	$p = m\,v$
rgy = 0.5 × mass × (speed)^2	$E_k = \frac{1}{2}m\,v^2$
al potential energy = mass nal field strength (g) × height	$E_p = m\,g\,h$
$\frac{\text{nergy transferred}}{\text{time}}$	$P = \frac{E}{t}$

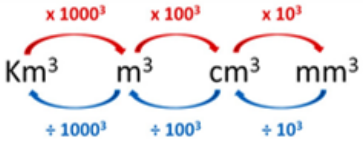
11	power = $\frac{\text{work done}}{\text{time}}$	$P =$
12	efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
13	efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
14	wave speed = frequency × wavelength	$v = f$
15	charge flow = current × time	$Q = I$
16	potential difference = current × resistance	$V = I$
17	power = potential difference × current	$P = V$
18	power = (current)^2 × resistance	$P = I$
19	energy transferred = power × time	$E = P$
20	energy transferred = charge flow × potential difference	$E = Q$
21	density = $\frac{\text{mass}}{\text{volume}}$	$\rho =$

Numeracy Placemat



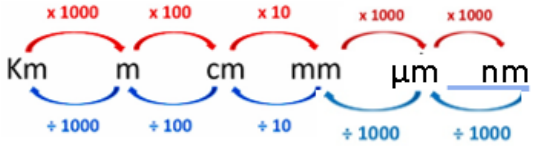
mass

1 kg in g = 1 x 1000 = 1000g



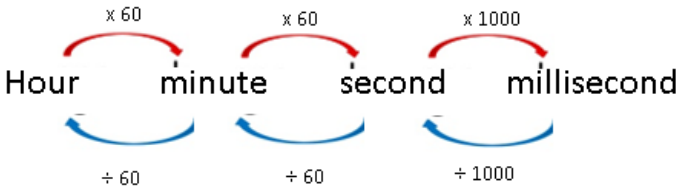
volume

1 cm^3 in m^3 = 1÷100^3 = 0.000001m^3



length

1mm in µm = 1 x 1000 = 1000 µm



time

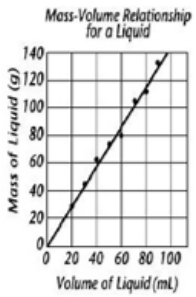
1 hour in seconds = 1 x 60 x 60 = 3600s

Symbol	Prefix	Example	Value
M	Mega-	Megahertz, MHz	1,000,000 10^6
k	Kilo-	Kilogram, Kg	1,000 10^3
c	Centi-	Centimetre, cm	100 10^2
m	Milli-	Milligram, mg	1 / 1,000 10^{-3}
µ	Micro-	Micrometre, µm	1 / 1,000,000 10^{-6}
n	Nano-	Nanometre, nm	1/ 1,000,000,000 10^{-9}

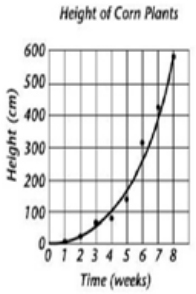
Line of best fit (L.O.B.F.)

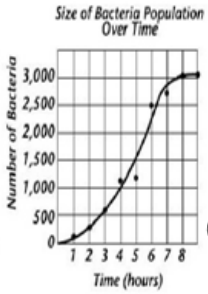
Line might pass through some, all or none of the points

Can be straight...



.... or curved





Give your final answer as a **decimal** NOT a fraction

You can leave your answer in standard form e.g. 1 x 10^{-7}

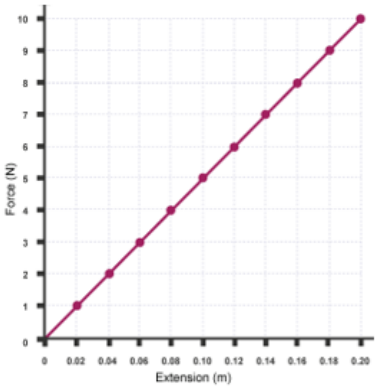
aths in Sc ence

Remember you need to learn equations in each subject for your exams

Numeracy Placemat

Check your units!
These are some of the common ones

Quantity	Unit
Time	s
Distance	m
Mass	Kg
Energy	J
Volume	cm^3 ml
Amount of substance	mole
Concentration	$moldm^{-3}$ or M
Speed or Velocity	m/s
Temperature	K ^oC
Current	A
Potential difference	V
Resistance	Ω
Power	W
Pressure	Pa
Density	kg/m^3
Force	N



Doesn't have to start at zero!

Graph checklist

- ✓ Evenly spaced scale
- ✓ Labelled axis with units
- ✓ Takes up more than 50% of page
- ✓ Points plotted accurately
- ✓ Line of best fit

Equation = formula

Estimate and use common sense to check your final answer

Not significant: zero for "cosmetic" purpose

Not significant: zeros used only to locate the decimal point

Significant: all zeros between nonzero numbers

0 . 0 0 4 0 0 4 5 0 0

Significant: all nonzero integers

Significant: zeros at the end of a number to the right of decimal point

Do you need to quote your answer to a certain number of significant figures?

Always show your workings...

S – Star the quantities in the question

U – Underline the units and quantities

C- Copy the quantities and the units

C – Convert units if needed

E- Re-write the equation and re-arrange if needed.

S – Substitute

S- Solve (and then add units)

Rearranging equations

1. Write equation
2. Circle what you want to know
3. Do the inverse to cancel out
4. Do the same on both sides
5. Rewrite equation

$$\Delta E = m(c)\Delta\theta$$

$\div m$ $\quad \frac{\Delta E}{m} = c\Delta\theta$

$\div \Delta\Theta$ $\quad \frac{\Delta E}{m\Delta\theta} = c$

$$c = \frac{\Delta E}{m\Delta\theta}$$

3,250,000,000.
9 units to the LEFT

0.0000004
7 units to the RIGHT

LEFT → positive exponent
3.25×10^9

RIGHT → negative exponent
4×10^{-7}

Remember DIDO for percentage change
DI for difference
D for divided by
O for original
X 100

All info on handout available at the end

Science information sheet for Yr 11 Parents evening

The November mocks will be on just Paper 1

Number of Science GCSEs	Science Courses	Exams
Two	*AQA Science Trilogy Foundation Tier* *AQA Science Trilogy Higher Tier*	6 exams all 1 hour 15 mins: Biology Paper 1 and 2 Chemistry Paper 1 and 2 Physics paper 1 and 2

Content in Each exam

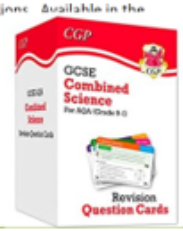
Exam	Content
Biology 1	1 Cells 2 Organisation 3 Infection and response 4 Bioenergetics Working scientifically
Biology 2	5 Homeostasis and response 6 Inheritance variation and evolution 7 Ecology Working scientifically
Chemistry 1	1 Atomic structure and periodic table 2 Bonding 3 Quantitative chemistry 4 Chemical changes 5 Energy Changes Working scientifically
Chemistry 2	6 Rates of reaction 7 Organic chemistry 8 Chemical analysis 9 Chemistry of the atmosphere 10 Using resources Working scientifically
Physics 1	1 Energy 2 Electricity 3 Particle model of matter 4 Atomic Structure Working scientifically
Physics 2	5 Forces 6 Waves 7 Magnetism and electromagnetism Working scientifically

Science February Mocks will all be on Paper 2 topics (see list above).

All pupils can borrow a revision guide from the library that they can be using at home to revise. All classrooms have them to use at school.

To help students revise for November mocks

1. PiXIL KNOWIT booklets to complete. All answers and Powerpoints with theory needed on class charts. Pupils can complete and then self assess.
   There are GRASPIT worksheets for pupils aiming for 5+. All on TEAMS
2. GCSE bitesize: Website on parent help sheet. Remember to focus on practical skills (20% of papers)
3. Revision guide – need to make flashcards, answer the test yourself questions. Available in the library both HT and FT
4. A3 Quick Quiz questions for each of the 13 topics on the Paper 1 mocks in November
5. Knowledge organisers: Read cover write check.
   These have been given in class and are on TEAMS
6. Physics data Sheet / Numeracy help sheet.
7. Flashcards



Useful other revision websites:

- GCSE pod https://www.gcsepod.com/
- Kerboodle resources https://www.kerboodle.com/users/login
- GCSE Bitesize website for GCSE Trilogy: https://www.bbc.co.uk/bitesize/examspecs/z8r997hs
- Seneca learning Free Homework & Revision for A Level, GCSE, KS3 & KS2 (senecalearning.com).
- Physics data sheet (over 20 formula that need to be learnt)
- Numeracy help sheet

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Maths Support for Year 11

Mrs Hart

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where no child is left behind

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Maths - 3 papers make up the GSCE

November Mocks: 3 Papers

Paper 1: Non-Calculator 80 marks

Paper 2 & 3: Calculator 80 marks

Foundation Paper:

50% Using and Applying

25% Reasoning skills

25% Problem Solving

Higher Paper:

40% Using and Applying

30% Reasoning skills

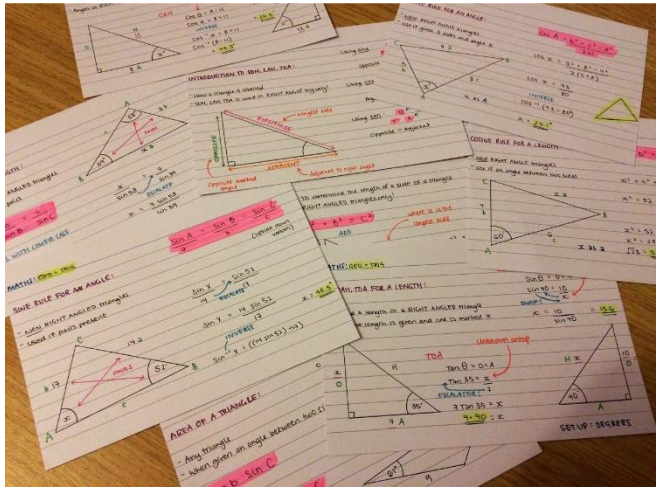
30% Problem Solving

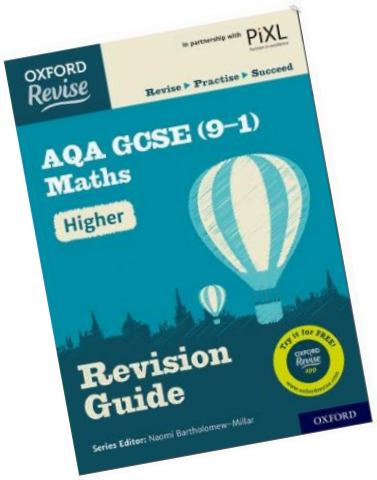
Key Areas

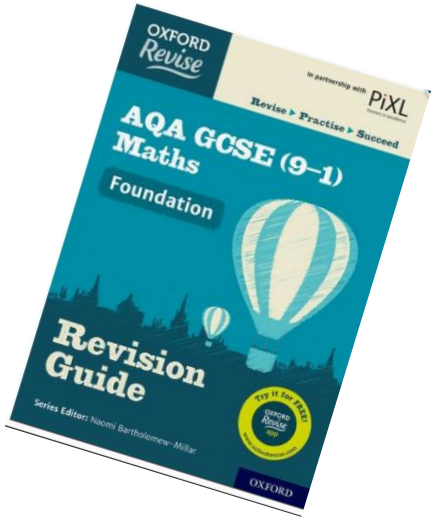
Number
Algebra
Geometry
Statistics
Ratio & Proportion

You will have a formulae booklet for your Mocks

Practice is the best revision!







Revision Guides

Flash Cards

Students now have to remember more formulae for their exams.

AQA Website: www.aqa.org.uk

Past Papers and Mark Schemes available.

www.mymaths.co.uk

Login: Oakbank Password: Obtuse

www.corbettmaths.com

Free worksheets; exam questions; videos

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Formulae for Foundation

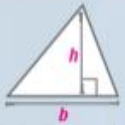
Formulae to Memorise

You will not be given these formulae in the exam

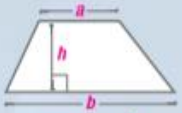
Areas

Area of a rectangle = $l \times w$

Area of a parallelogram = $b \times h$

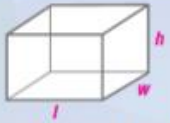


Area of a triangle = $\frac{1}{2} b \times h$

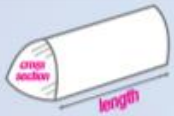


Area of a trapezium = $\frac{1}{2}(a + b)\,h$

Volumes



Volume of a cuboid = $l \times w \times h$



Volume of a prism = area of cross section × length

Volume of a cylinder = $\pi r^2 h$

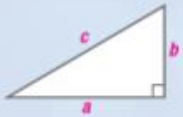
Volume of a pyramid = $\frac{1}{3}$ × area of base × h

Circumference and Area of a Circle

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

Area of a circle = πr^2

Pythagoras' Theorem



$a^2 + b^2 = c^2$

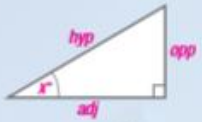
Compound Measures

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

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

$\text{pressure} = \frac{\text{force}}{\text{area}}$

Trigonometry



$\sin x = \frac{opp}{hyp}$, $\cos x = \frac{adj}{hyp}$, $\tan x = \frac{opp}{adj}$

Compound Interest*

Where P is the principal amount, r is the interest rate (as a percentage) over a given period and n is the number of times that the interest is compounded:

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

Probability*

Where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B:

$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

Formulae given in the Exam

You do not need to memorise these formulae

Volume and Surface Area

Curved surface area of a cone = $\pi r l$

Volume of a cone = $\frac{1}{3} \pi r^2 h$

Surface area of a sphere = $4\pi r^2$

Volume of a sphere = $\frac{4}{3} \pi r^3$

Kinematics Formulae

Where a is constant acceleration, u is initial velocity, v is final velocity, s is displacement from the position when $t = 0$ and t is time taken:

$v = u + at$

$s = ut + \frac{1}{2} at^2$

$v^2 = u^2 + 2as$

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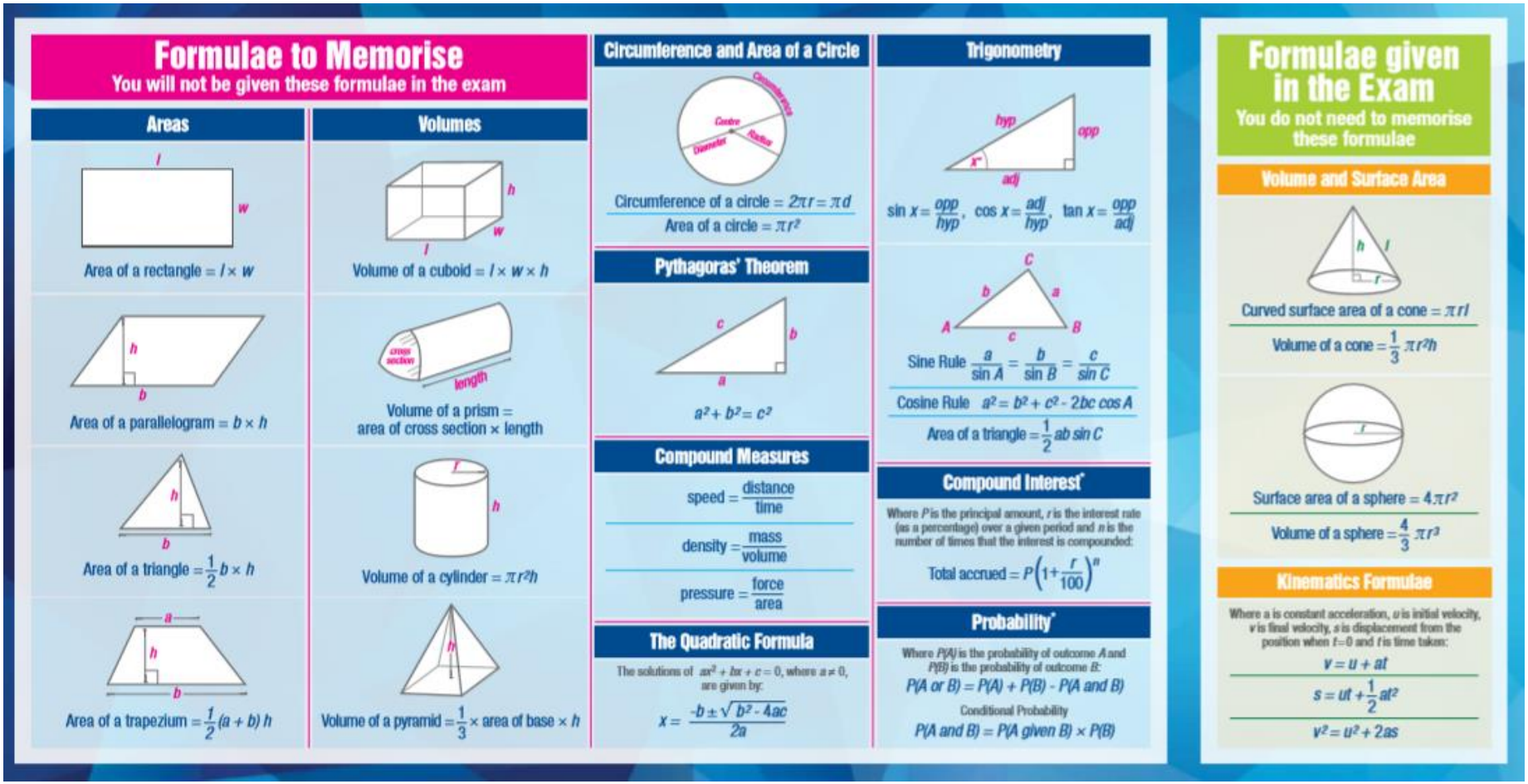
Formulae for Higher



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Volumes

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Area of a circle = πr^2

Pythagoras' Theorem

$a^2 + b^2 = c^2$

Compound Measures

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

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

$\text{pressure} = \frac{\text{force}}{\text{area}}$

The Quadratic Formula

The solutions of $ax^2 + bx + c = 0$, where $a \neq 0$, are given by:

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

Trigonometry

$\sin x = \frac{opp}{hyp}$, $\cos x = \frac{adj}{hyp}$, $\tan x = \frac{opp}{adj}$

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

Compound Interest*

Where P is the principal amount, r is the interest rate (as a percentage) over a given period and n is the number of times that the interest is compounded:

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

Probability*

Where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B:

$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

Conditional Probability

$P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$

Formulae given in the Exam

You do not need to memorise these formulae

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$s = ut + \frac{1}{2} at^2$

$v^2 = u^2 + 2as$

Websites

Mr Barton Maths
Corbett Maths
Just Maths
Mr Carter Maths
Maths Genie
Hegarty Maths
MyMaths
Diagnostic Questions
BBC Bitesize
Revision Maths
Mathsisfun
Mr Carter Maths
Mathsbot
ck12
Khan Academy
Worksheetmaths
And many more just search for them!

Things you must look at

mrbartonmaths.com/students/gcse/mr-barton-ebook.html

www.piximaths.co.uk/revision-materials

justmaths.co.uk/blog/

solvemymaths.files.wordpress.com/2016/03/gcse-resit-top-tips-pdf.pdf

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Discussion Forum

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Exam Solutions
Khan Academy
WCSCMaths
WrightMaths
Maths Partner
crashMATHS
Reg F Harding
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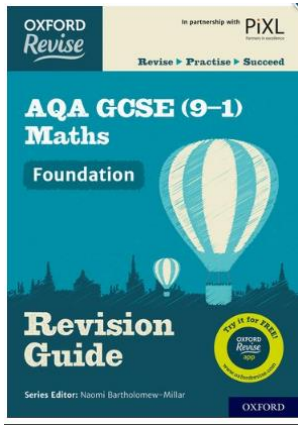
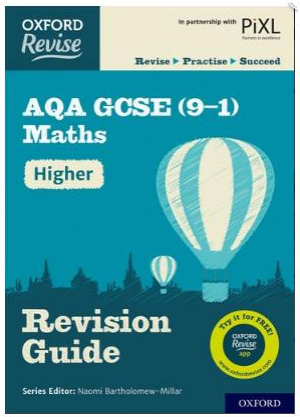
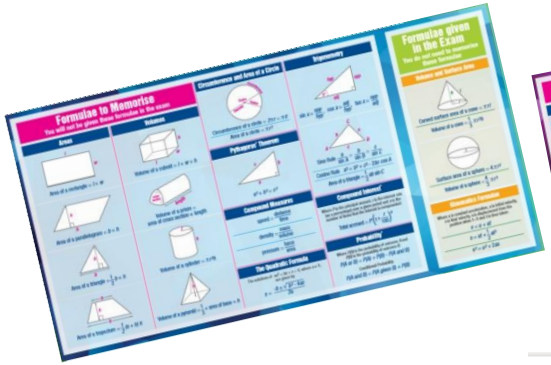
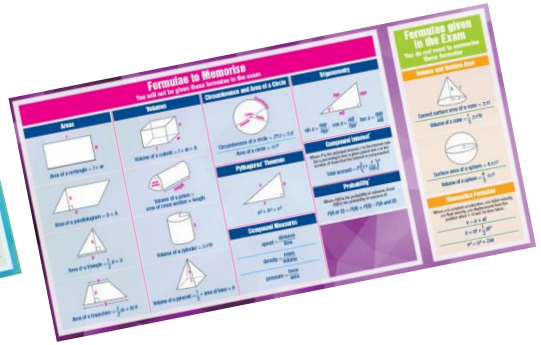


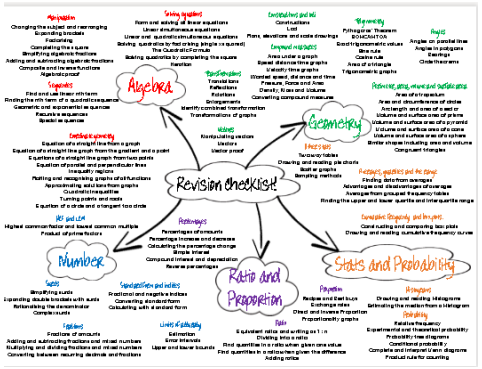


ulae Poster





sion Checklist Poster



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Sixth Form

Mr. Manny Delgado

Beckfoot Oakbank

WHY Beckfoot Oakbank Sixth Form..

Join us for our Open Evening on Thursday 15th December

Beckfoot Trust Sixth Form

Here are 10 reasons why……

CHECKLIST

- ✓ Excellent courses
- ✓ Quality teaching
- ✓ Bespoke tutoring
- ✓ Fantastic resources
- ✓ Excellent outcomes

CHECKLIST

- ✓ Pixl Edge - Graduate
- ✓ Uni-frog
- ✓ UCAS
- ✓ Career guidance
- ✓ Enriching opportunities

Post 16 at Beckfoot Oakbank

"The sixth-form provision is a strong feature of the school. It meets the needs of its students well & so they make strong progress" **OFSTED**

Sixth Form OPEN EVENING

Thursday 15th December 2022
15:30-18:30

Come and see what a fantastic, top performing sixth form looks like

Why choose us?

+ 100% success in securing interviews at Oxbridge
+ Work experience placements in Y12
+ Participation in Reach for Excellence, Realising Opportunities, ccess to Leeds & Social Mobility to support university applications
+ Our A*- C grades are rising faster than the national average
+ Average level 3 BTEC grade is Distinction
+ Bespoke tutor programme
+ Student Leadership opportunities

Latest Year 13 Leavers: DESTINATIONS

A snapshot of where some of our Y13 leavers went on to continue their education

- St Andrews University- Mathematics
- Manchester University- Midwifery
- Liverpool University- Ancient History & Archaeology
- Aberdeen University- Politics & Sociology
- Bangor University- Zoology
- York University- Biomedical Science
- Northumbria University- Psychology
- Bradford University- Adult Nursing

Apprenticeships

- Business Administration- Fibreline
- Customer Service Advisor- HMRC
- Digital Marketing- T & S Connect
- IT Sales Executive- CCS Bradford
- Graphic Designer- White Gyll

3 medics in the last 2 years!

100% of students who applied to university got in!

YEAR 13 UNIVESITY DESTINATIONS: SUMMER 2022

Academic and Applied Routes – what combination should I choose?

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	Biology, Chemistry, Maths, Physics – any facilitating subjects
	Health & Social Care, Applied Science, Biology.
	Any facilitating subjects – especially History, English and Psychology.
	Product Design, Computer Applied Science, Maths and Physics
	National Curriculum subjects – any of these. But normally you would a degree in one of them.
e	**Health and Social Care, Sociology, Child Care, Psychology, Applied Science.**
	Biology, Sport, Chemistry, Applied Science.
	Biology, Chemistry, Maths, Applied Science.
	Business, Maths, IT and other facilitating subjects
	Business, Maths, IT and other facilitating subjects.
	Applied Science, Criminology, Psychology, Maths, Chemistry, Sociology.
	Any facilitating subjects – especially History, English and Psychology.
	Criminology, Psychology, Sociology, Health and Social Care
es	**Any media or Performing Arts related subject – English, History, IT**
	Health and Social Care, Sociology, Psychology, Criminology, English, History
sign	**IT, Computer Science, Business, Product Design, I Media**

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Course Title / Spec	Minimum expected grades	English Language Requirement	Mat Req
Facilitating Subjects (subjects most commonly asked for by Universities and allow access to the widest range			
Biology	6-6 in combined Science or 6 in Biology (Single Science)	5	
Chemistry	6-6 in combined Science or 6 in Chemistry (Single Science)	5	
English Literature	6 in English Language or Literature	6	
French	6 in French	6	
Geography	5 in Geography	5	
History	5 in History	5	
Maths		4	
Physics	6-6 in combined Science or 6 in Physics (Single Science)	5	
Spanish	6 in Spanish	6	
Non-Facilitating A Level choices (may be required by some Universities for particular degrees)			
Art	5 in Art GCSE	4	
Computer Science	5 in Computer Science	5	
English Language	6 in English Language or Literature	6	
Psychology		5	
Sociology		5	
Applied Science *Level 3 BTEC*	4-4 in combined Science	4	
Business *Level 3 BTEC*	Level 2 Pass in BTEC Business or equivalent	4	
Criminology *Level 3 Applied Diploma*		4	
Design Technology *Level 3 BTEC*	5 in any Technology subject	4	
Sport *Level 3 BTEC*	BTEC Sport Lev 2 Pass or equivalent 4-4 in Combined Science or a 4 in Biology (Single Science)	4	
Health and Social Care *Level 3 BTEC*		4	
Performing Arts *Level 3 BTEC*	4 or higher in GCSE Drama or equivalent	4	
Music Performance *Level 3 BTEC*	4 or higher in GCSE Music or equivalent	4	

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Will I meet the Sixth Form's entry criteria?

- **You have to achieve 5 x 4s or above. Including Maths and English Language. If you do not meet the basic entry requirements, then we will not be able to offer you a place.**

- **In order to do any Academic Subjects, you have to meet that subject's entry criteria – check the entry criteria against your current targets – are you likely to meet these targets? Do you fit that subject's academic and entry profile? If you do, and know you will achieve these grades, then apply – If, however, you know these targets are not possible, then look to the Applied Route – Be aspirational, but also realistic.**

- **For example, if you are currently on a 1 or 2 for Maths or Chemistry and are unlikely to get a 6 or 7 then you will not be accepted on this course – check the criteria carefully. If you are still unsure, have a chat with your teacher or a member of the Post 16 Team**

- **Have you considered the Applied Route – these subjects only require 4's – but you still need to have got Maths and English Language at Grade 4 – if you don't have these then we will not be able to offer you a place – this is non negotiable.**

- **Prior to your interview we will check all applications based on your current academic position and if we feel you have made the wrong choices or need further guidance, we will come and find you.**

- **We are here to make sure you make the right choices and choose the right courses.**

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Next Steps…

- Open Evening on Thursday 15th December
- Applications open on Thursday 15th December and close on Tuesday 20th December
- Interview process will begin in January
- Re-look at all applications after your mocks in February – we may need to have another chat with you.
- Taster Day on Monday 13th March – did you choose the right subjects?
- Formal offers made at the end of March – subject to you achieving the grades and meeting the entry criteria
- Results Day in August – your place will be officially confirmed based on the results you receive

Good luck ☺

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Thank you for listening
We will be about to answer any questions you may have.