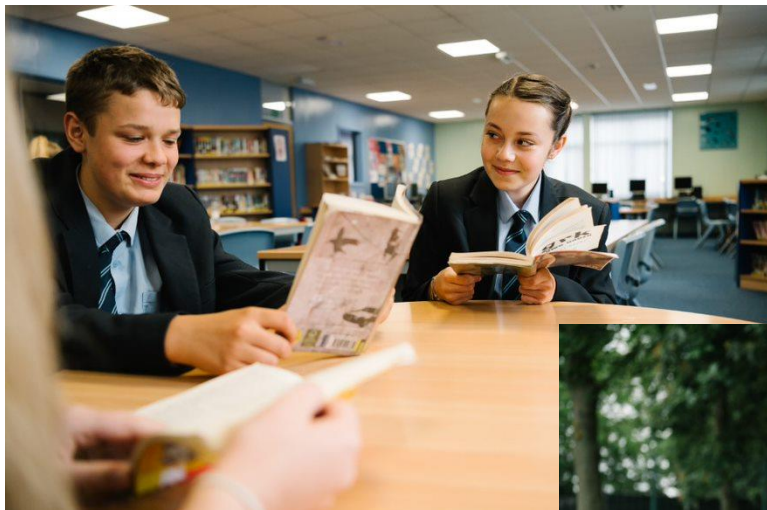


# **Year 11 Information Event**

Wednesday 16<sup>th</sup> February 2022



**'every child has the  
right to an excellent  
education'**

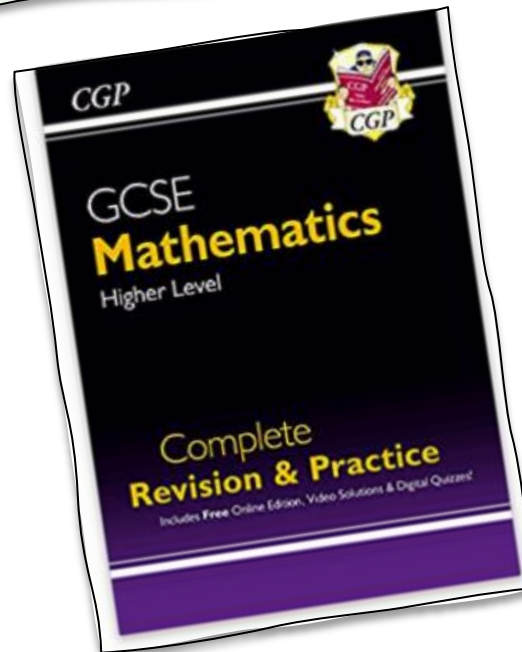
# How are we supporting students?

- targeted after-school revision
- Wednesday morning booster sessions
- school-led tutoring
- academic mentoring and support
- timely revision/topic lists / revision guides
- preparation mocks
- online resources





# Revision



# What is a knowledge organiser?

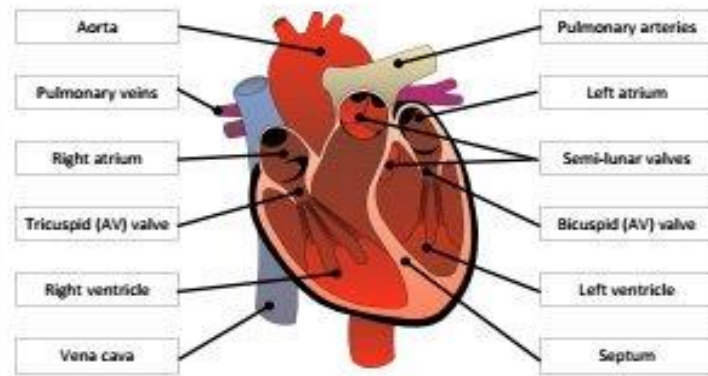


- The key content for a topic all on one page.
- The facts that students need to know.
- Students can use them for homework tasks, and for checking their knowledge.
- They are perfect for revision.

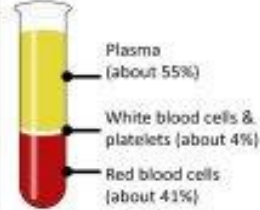
# KNOWLEDGE ORGANISER

# Unit 1 Anatomy & Physiology: The Cardiovascular System

## STRUCTURE OF THE HEART



## COMPOSITION OF BLOOD



## FUNCTIONS OF THE CARDIOVASCULAR SYSTEM

1. Delivery of oxygen and nutrients
2. Removal of waste products
3. Thermoregulation
4. Fight infection
5. Clot blood

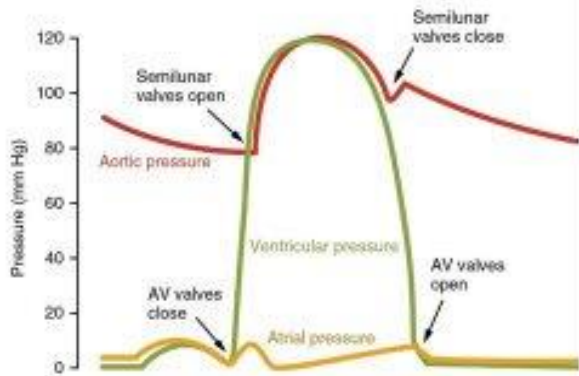
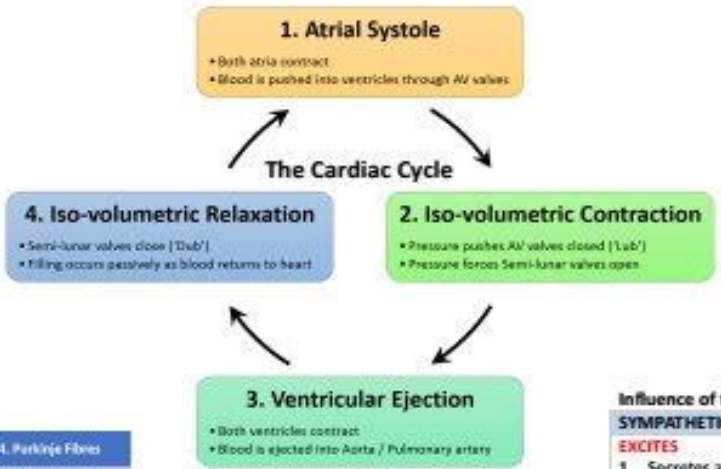
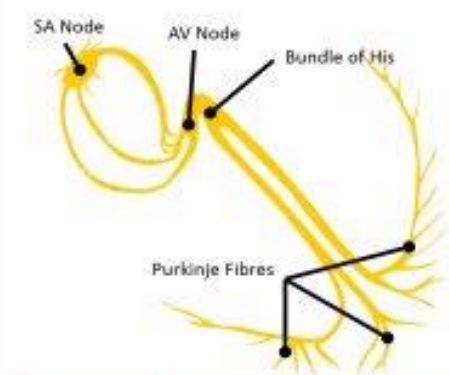
## STRUCTURE OF BLOOD VESSELS

ARTERY (& arteriole)	CAPILLARY	VEIN (& venule)
<ol style="list-style-type: none"> <li>1. Away from the heart</li> <li>2. Oxygenated blood*</li> <li>3. Thick walls</li> <li>4. High pressure</li> </ol>	<ol style="list-style-type: none"> <li>1. In the tissue</li> <li>2. Gaseous exchange</li> <li>3. Very thin walls</li> <li>4. High pressure</li> </ol>	<ol style="list-style-type: none"> <li>1. Back to the heart</li> <li>2. Deoxygenated blood*</li> <li>3. Thin walls</li> <li>4. Lower pressure</li> <li>5. Valves</li> </ol>
<p>Endothelium, Smooth muscle, Connective tissue</p>	<p>Endothelium (one cell thick), lumen</p>	<p>Valve, Endothelium, Smooth muscle, Connective tissue</p>

\*except for pulmonary artery/pulmonary vein where this is reversed

## NERVOUS CONTROL OF THE CARDIAC CYCLE

### Electrical Impulse Pathway



1. Sinusatrial Node	2. Atrioventricular Node	3. Bundle of His	4. Purkinje Fibres
Right atrium near vena cava	Septum near atria	Septum	Ventricle walls
Triggers atrial systole	Delays, then conducts through to ventricles	Conducts to base of ventricles	Conducts up ventricle walls

## Influence of the Autonomic Nervous System on the Cardiac Cycle

SYMPATHETIC NERVOUS SYSTEM	PARASYMPATHETIC NERVOUS SYSTEM
<b>EXCITES</b>	<b>CALMS</b>
<ol style="list-style-type: none"> <li>1. Secretes adrenaline &amp; noradrenaline</li> <li>2. Increases Heart Rate</li> <li>3. Increases Blood Pressure</li> <li>4. Increases contractile force of cardiac muscle</li> <li>5. Stimulates vasoconstriction/vasodilation</li> </ol>	<ol style="list-style-type: none"> <li>1. Decreases Heart Rate</li> <li>2. Decreases Blood Pressure</li> <li>3. Decreases Cardiac Output (Q)</li> </ol>

## RESPONSES TO EXERCISE (Short Term)

1. Anticipatory increase in heart rate prior to exercise
2. Increased heart rate
3. Increased cardiac output
4. Increased blood pressure
5. Redirection of blood flow

## ADAPTATIONS TO EXERCISE (Long Term)

1. Cardiac hypertrophy
2. Increase in resting and exercising stroke volume
3. Decrease in resting heart rate
4. Capillarisation of skeletal muscle and alveoli
5. Reduction in resting blood pressure
6. Decreased heart rate recovery time
7. Increase in blood volume

## ADDITIONAL FACTORS

1. Sudden arrhythmic death syndrome (SADS)
2. High blood pressure / low blood pressure
3. Hyperthermia / hypothermia

Made by Mike Tyler @MikeTylerSport



## Changes to coursework

Non-exam assessment and fieldwork requirements adjusted, with flexibility in some subjects.

## Optional content

There will be less content or fewer topics for students to learn in some GCSEs.

## Generous grading

Exams will be graded more generously this year providing a safety net for students.

## Support materials

Students will get formulae and equation sheets in some exams and won't have to memorise as much.

## Advance information

Exam boards will give information on the focus of exams for most subjects to help students revise.

# Standards and Expectations

- Students need to bring in the correct equipment for their lessons and exams, e.g. a calculator, ruler, blue/black pens ... lots of pens!
- Uniform – please support us by ensuring students wear their correct uniform.
- Mobile phones ...



# Examination Requirements

- All information and candidate instructions are on the school's website. Please do read.
- In exams, clear water bottles / clear pencil cases and correct equipment.
- No phones ... no watches ... no airpods, etc.
- Nothing in pockets / blazers.
- Be on time.

# Supporting Students

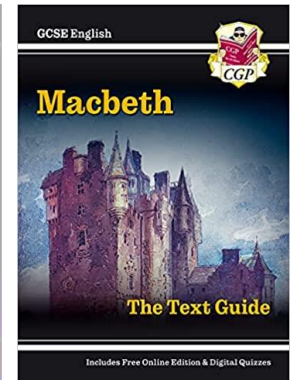
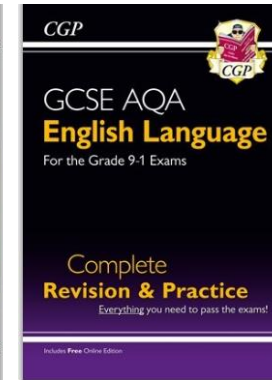
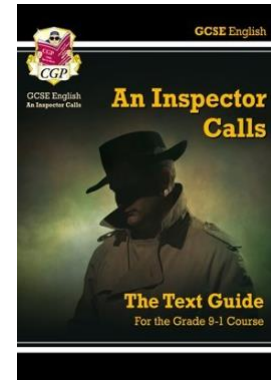
- If you have any concerns or your child has any concerns – we need to know.
- We have ensured students are getting impartial careers advice and guidance.
- Laurea Centre staff are always available to speak to and support our students.

**We are proud of our students – we want them to do well. Please support us.**



# English Language and English Literature

- Two distinct qualifications.
- Four separate exams.
  - English Language Fiction – reading and writing.
  - English Language Non-fiction – Reading and writing
  - English Literature – Shakespeare and unseen poetry.
  - English Literature – An Inspector Calls and A Christmas Carol.
- Important in terms of **any** career/academic pathway.



We recommend one guide for English Language and separate shorter guides for English Literature.

English Language – Reading and writing fiction/non-fiction.

English Literature:  
An Inspector Calls,  
Macbeth,  
A Christmas Carol,  
Unseen Poetry.



# How to revise for English.

- **Remind students what they will be marked on.** We don't know the content, but we do know the structure.
- **Refresh their memory** with study guides, websites, their class books; map the gap.
- **Organise their notes.** Use post-it notes, flashcards and section their work/ideas to match the exams.
- **Re-read the texts.** Audio book versions are available as well as detailed plot summaries online.
- **Discuss ideas.** Buddy up! Testing each other on key quotes and discussing interpretations.
- **Practice past papers.** Use the AQA website and ask teachers. They have already completed many papers for every section; re-read the work!
- **Review all notes.** Revisit regularly for short periods of time – keep them handy.



Take regular  
breaks

Make a  
timetable

Work through  
past papers

Watch the  
tutorials or  
revision clips  
your teacher  
suggests

# Practising ~~REVISING~~

## MATHS

Find a  
quiet  
workspace

Know what  
topics to  
focus on

make a list and  
update it regularly

Know the formula  
you need to  
remember & what  
is in the paper

Make sure you  
have and **USE** a  
recommended  
revision guide

Its no good just owning  
a guide ... **USE IT!**

Do a little bit  
of "practice"  
every day

Work through  
past papers

Google it!

BUT do get  
them marked  
using a mark-  
scheme

Use or make  
revision cards, a  
popplet or a  
prezi

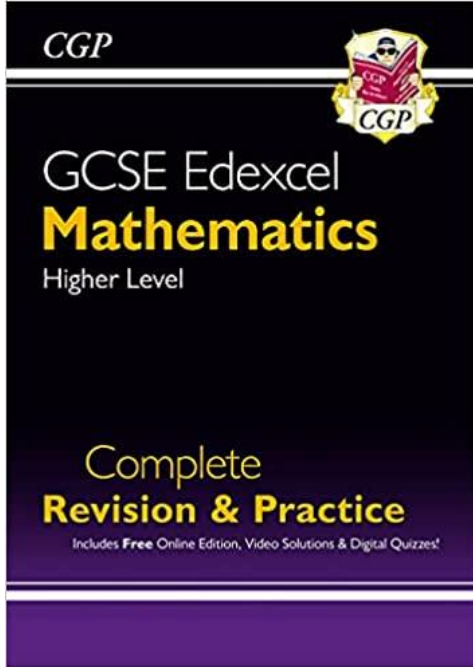
Ask for  
help if  
unsure



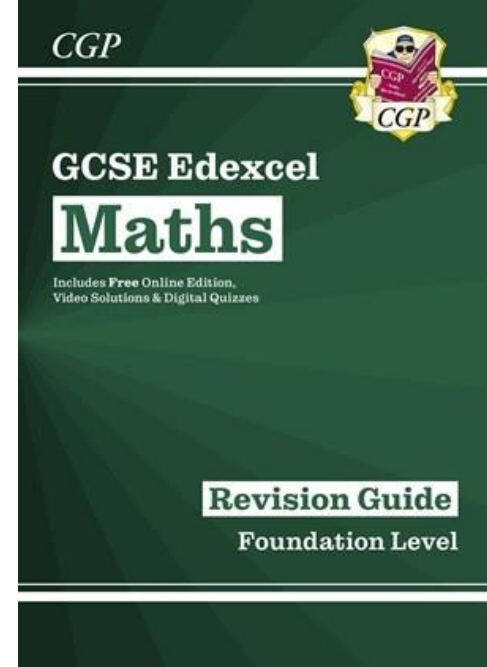
Follow  
[@ReviseJustMaths](#)

To revise maths you need to DO maths!

# Revision Guide and Workbook



- Revision guides are great for reminding students what they need to know about a topic – but they need to make sure that they are trying to do the questions too.



# Maths Genie – GCSE Revision

- [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

## Grade 5

Videos	Exam Questions	Exam Questions Booklet	Solutions
<a href="#">Writing a Ratio as a Fraction or Linear Function</a>	<a href="#">Exam Questions</a> <a href="#">Exam Questions</a>	<a href="#">Ratio Fraction Problems</a> <a href="#">Ratio Problems 2</a>	<a href="#">Solutions</a> <a href="#">Solutions</a>
<a href="#">Direct and Inverse Proportion</a>	<a href="#">Exam Questions</a>	<a href="#">Direct and Inverse Proportion</a>	<a href="#">Solutions</a>
<a href="#">Reverse Percentages</a>	<a href="#">Exam Questions</a>	<a href="#">Reverse Percentages</a>	<a href="#">Solutions</a>
<a href="#">Standard Form</a>	<a href="#">Exam Questions</a>	<a href="#">Standard Form</a>	<a href="#">Solutions</a>
<a href="#">Speed and Density</a>	<a href="#">Exam Questions</a>	<a href="#">Compound Measures</a>	<a href="#">Solutions</a>
<a href="#">Changing the Subject of a Formula</a>	<a href="#">Exam Questions</a>	<a href="#">Changing the Subject of a Formula</a>	<a href="#">Solutions</a>



- 1 Jesy invests £8000 for  $n$  years in a savings account.

To find the value,  $V$ , of her investment after  $n$  years she uses the formula:

$$V = 8000 \times (1.025)^n$$

- (a) Write down the annual rate of interest Jesy earns.
- (b) Find the **total amount of interest** Jesy earns in three years.

(Total for question 1 is 3 marks)

- 2 Perrie invests £25000 for 3 years in a savings account.  
She gets 2.7% per annum compound interest.

Calculate the **total amount of interest** Perrie will get after 3 years.

(Total for question 2 is 3 marks)

- 3 Jade bought a house for £350 000.

In the first year the house price increased by 3%  
In the second year the house price increased by 2%  
In the third year the house price depreciated by 5%

Work out the value of the house at the end of 3 years.

(Total for question 3 is 3 marks)

- 4 Leigh-Anne invests £2500 for 4 years in a savings account.  
She gets 3% per annum compound interest.

How much money does Leigh-Anne have at the end of 4 years.

(Total for question 4 is 2 marks)

- 5 Annie invests £9500 for 5 years in a savings account.  
She gets 1.8% per annum compound interest.

How much money does Annie have at the end of 5 years.

(Total for question 5 is 2 marks)

- 6 Greg bought a new car for £18 000.  
In the first year the value of the car depreciates by 30%.  
In the second year and the third year the car depreciates by 14%

Work out the value of the car after three years.

(Total for question 6 is 3 marks)

- 7 Nick bought a new car.  
Each year the car depreciates in value by 12%.

Work out the number of years it takes for the car to half in value.

(Total for question 7 is 3 marks)

- 8 Fearne invests £5600 in a savings account.  
She gets 2% per annum compound interest.

After  $n$  years, Fearne has £6061.62 in her account.  
Work out the value of  $n$ .

(Total for question 8 is 2 marks)

- 1 Jesy invests £8000 for  $n$  years in a savings account.

To find the value,  $V$ , of her investment after  $n$  years she uses the formula:

$$V = 8000 \times (1.025)^n$$

- (a) Write down the annual rate of interest Jesy earns.

.....  
(1)

- (b) Find the **total amount of interest** Jesy earns in three years.

£.....  
(2)

**(Total for question 1 is 3 marks)**

- 2 Perrie invests £25000 for 3 years in a savings account.  
She gets 2.7% per annum compound interest.

Calculate the **total amount of interest** Perrie will get after 3 years.

# Maths Genie - GCSE Papers

Maths Genie

GCSE Revision

GCSE Papers ▼

A Level Revision ▼

A Level Papers

KS2 Revision

Resources

## Foundation GCSE Exam Papers

Paper	Answers
<a href="#">2020 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a>
<a href="#">2020 Paper 2</a>	<a href="#">MS</a> <a href="#">Ans</a>
<a href="#">2020 Paper 3</a>	<a href="#">MS</a> <a href="#">Ans</a>
<a href="#">June 2019 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">June 2019 Paper 2</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">June 2019 Paper 3</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">November 2018 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">November 2018 Paper 2</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">November 2018 Paper 3</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">June 2018 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>

# Mark Scheme

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
1	3	B1	cao	
2	73	B1	cao	
3	80	B1	cao	
4	23 or 29	B1	for 23 or 29	Do not award if any other numbers are included, but award if both 23 and 29 are shown.
5	11	B1	cao	
6	3000	P1  P1  P1  A1	for a correct step for travel or/and spending money eg $4 \times 150 (=600)$ or $4 \times 250 (=1000)$ or $150 + 250 (=400)$  for an appropriate step with the hotel price eg $7 \times 50 (=350)$ or $4 \times 50 (=200)$  for combining at least two “costs” for 4 people for 7 nights eg $4 \times 150 + 4 \times 250 (=1600)$ or $4 \times 150 + 7 \times 4 \times 50 (=2000)$  cao	Can be embedded eg $4 \times 7 \times 150$  Can be $4 \times 7 \times 50$  Must be correct process for two costs eg not $4 \times 150 \times 7$ but may be 2 correct costs and one incorrect



# Answers

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 Write 180 minutes in hours.

$$\frac{180}{60} = 3$$

3 hours

(Total for Question 1 is 1 mark)

- 2 Write 0.73 as a percentage.

$$0.73 \times 100$$

73 %

(Total for Question 2 is 1 mark)

- 3 Work out  $10 \times (3 + 5)$

$$10 \times 8$$

80

(Total for Question 3 is 1 mark)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

# JustMaths

[Lessons](#)[R.A.G.](#)[Exam Solutions](#)[Key Skills Challenges](#)[Contact Us](#)[- Log Out -](#)

Once you have logged in, you will find a whole host of support for the 9-1 Mathematics GCSE, focusing on the crossover topics for both higher and foundation tiers. Not part of the JustMaths family? [Click here to find out how to join!](#)

- If you are a student, you will be able to print out the worksheets to work on alongside watching the tutorials. You will also find the worksheet solutions.
- If you are a teacher, you will also find the tutorials, worksheets, and worksheet solutions along with exam papers by topics, again with solutions and a comprehensive set of fabulous lesson resources and don't forget to check out the "extras" in the teacher toolkit where you will find a host of other useful stuff too.

We suggest that the topics are followed in the order ... simple, now get started!  
Christian, Mel and Fize

Howdy, HermitageStudent |  
[Logout](#)

Latest from the JustMaths Team:

> 14th Feb 22 – NEW ..  
[Take 5 UPDATED](#)  
January 4, 2022

Paper 1– Fri 20th May a.m.  
Paper 2–Tues 7th June a.m.  
Paper 3–Mon 13th June a.m.

**Countdown till Paper 1**

**93 : 13 : 12 : 51**  
Days Hrs Mins Secs

# Lessons

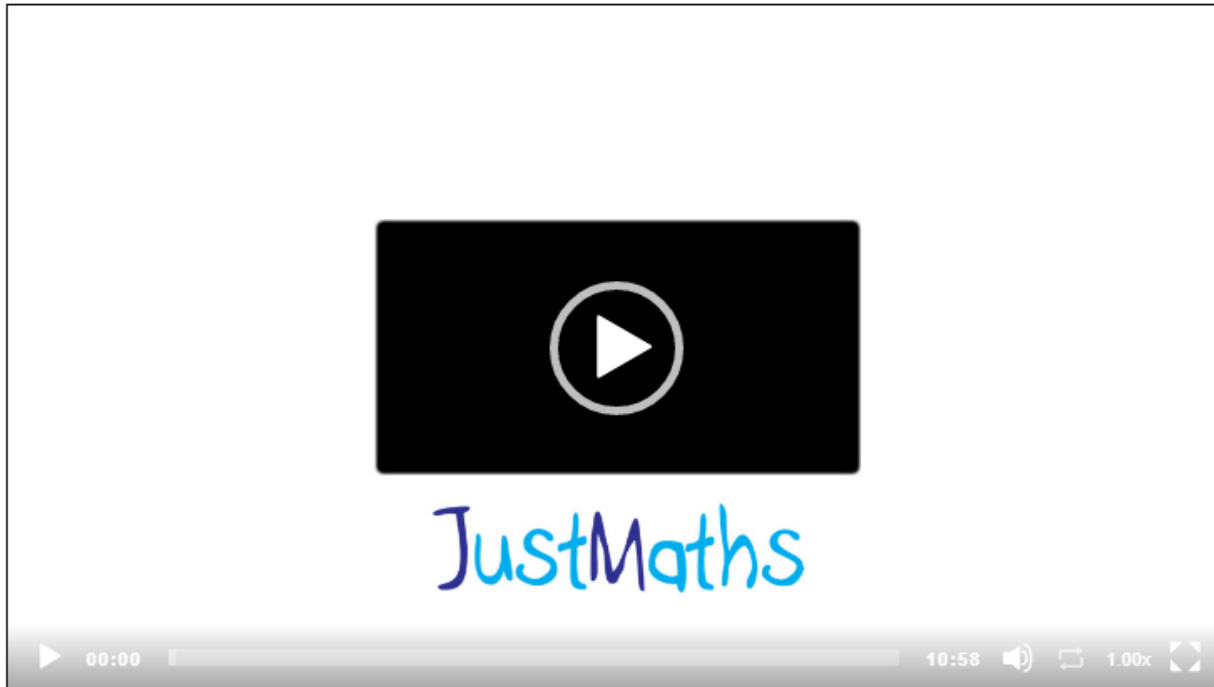
We like to keep things simple so all you have to do is print out the worksheets (link under the video) to work on alongside watching the main videos or if you're looking for a quick reminder watch the "quick hint" videos.

We suggest that the topics are followed in this order ... simple, now get started!

01 Two-Way Tables	02 Frequency Trees	03 Rounding & Error Intervals	04 Estimation	05 Use of Calculator	06 Product of Prime Factors
07 HCF & LCM	08 Real Life Multiples	09 Fractions 1	10 Fractions 2	11 Ratio 1	12 Ratio 2
13 Direct Proportion	14 Proportion – Best Value	15 Proportions – Recipes	16 Proportion – Exchange Rates	17 Inverse Proportion	18 Percentages 1
19 Percentages 2	20 Interest & Growth	21 Depreciation & Decay	22 Reverse Percentages	23 Index Laws	24 Expand & Simplify
25 Sequences	26 Inequalities	27 Solving Equations	28 Forming & Solving 1	29 Forming & Solving 2	30 Factorising 1

# 26 Inequalities

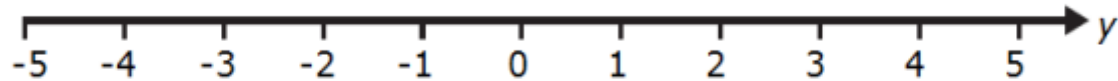
Video Lesson



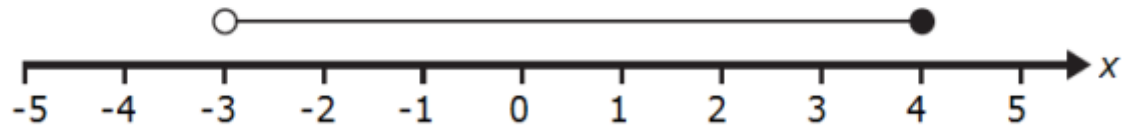
Quick Hints



a) On the number line, show the inequality  $-2 < y < 3$



b) Here is an inequality, in  $x$ , shown on a number line:



Write down the inequality.

# R.A.G.

## JustMaths

[Lessons](#)[R.A.G.](#)[Exam Solutions](#)[Key Skills Challenges](#)[Contact Us](#)[- Log Out -](#)

### R.A.G.

Key Stage

KS4

Exam board

Edexcel

Year

Autumn 2017

Tier of entry

Higher

Paper

1

Q	Full Marks	Enter Marks
1	2	
2	4	
3	4	
4	4	
5	4	
6	4	

19	4	3
20	4	2
21	3	3
22	5	2
23	5	2
	80	61

Your Total Marks

Name:

Email:

Confirm Email:

☒ Exclude Full Mark Questions

Generate Paper

## Success



Click the download link below and check your email for a back-up copy of your paper

Username	Link to Download
Joanne Wood	<a href="#">Download</a>

Q	Topic	Full Mark	Your Score	Video Support
1	Product of prime factors	2	2	<a href="#">Ede-Autumn2017-H1-1</a>
2	Forming and solving equations	4	4	<a href="#">Ede-Autumn2017-H1-2</a>
3	Angles facts	4	4	<a href="#">Ede-Autumn2017-H1-3</a>
4	Area of a circle	4	4	<a href="#">Ede-Autumn2017-H1-4</a>
5	Estimate of the mean	4	4	<a href="#">Ede-Autumn2017-H1-5</a>
6	Forming and solving equations	4	4	<a href="#">Ede-Autumn2017-H1-6</a>
7	Quadratic Graphs	1	0	<a href="#">Ede-Autumn2017-H1-7</a>
8	Recurring decimals	2	1	<a href="#">Ede-Autumn2017-H1-8</a>
9	Speed / Distance /Time	5	5	<a href="#">Ede-Autumn2017-H1-9</a>
10a	Fractional indices	1	1	<a href="#">Ede-Autumn2017-H1-10a</a>
10b	Fractional indices	2	2	<a href="#">Ede-Autumn2017-H1-10b</a>
11	Simultaneous Equations	4	4	<a href="#">Ede-Autumn2017-H1-11</a>
12	Draw and interpret box plots	5	5	<a href="#">Ede-Autumn2017-H1-12</a>
13	Proportional Reasoning	4	4	<a href="#">Ede-Autumn2017-H1-13</a>
14	Ratio / Algebraic manipulation	3	3	<a href="#">Ede-Autumn2017-H1-14</a>
15	Recurring decimals	3	1	<a href="#">Ede-Autumn2017-H1-15</a>
16	Direct proportion	3	1	<a href="#">Ede-Autumn2017-H1-16</a>
17	Algebraic Proof	2	0	<a href="#">Ede-Autumn2017-H1-17</a>
18	Fractional / negative enlargements	2	0	<a href="#">Ede-Autumn2017-H1-18</a>
19	Perpendicular lines / $y = mx + c$	4	3	<a href="#">Ede-Autumn2017-H1-19</a>
20	Exact values of trigonometry	4	2	<a href="#">Ede-Autumn2017-H1-20</a>
21	Surds (Rationalising)	3	3	<a href="#">Ede-Autumn2017-H1-21</a>
22	Similarity	5	2	<a href="#">Ede-Autumn2017-H1-22</a>
23	Forming and solving quadratic inequalities	5	2	<a href="#">Ede-Autumn2017-H1-23</a>
<b>TOTAL</b>		<b>80</b>	<b>61</b>	

**KS4 Edexcel**  
**Autumn 2017 -**  
**Alternative Paper**  
**Higher**  
**Paper 1**  
**Name: Joanne**  
**Wood**

You will note that your scores have been colour coded.

In the first instance, we suggest that you focus on those questions where you gained some marks. After this, focus on the questions where you have no knowledge i.e. the red questions.

If you opted to include all questions, you will also find additional practice questions for topics that you got correct these are

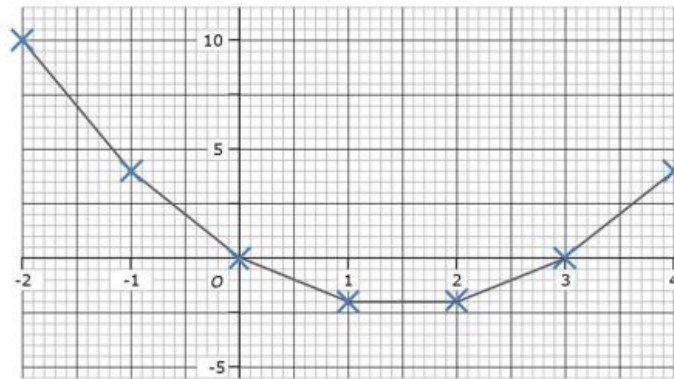




5 This was a question you got correct.

6 This was a question you got correct.

7. Brogan needs to draw the graph of  $y = x^2 - 3x$   
Here is her graph.



Write down one thing that is wrong with Brogan's graph.

(1)

8. Write these numbers in order of size.  
Start with the smallest number.

0.524

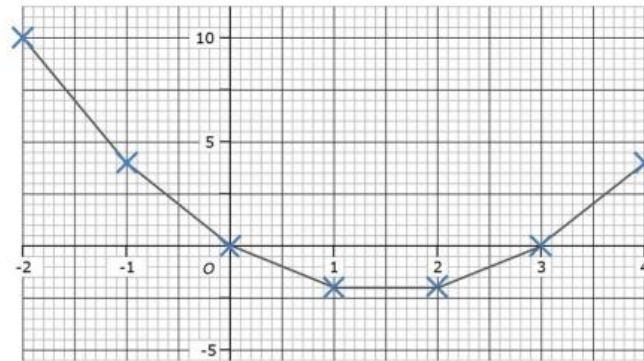
0.524

0.524

0.524

6 This was a question you got correct.

7. Brogan needs to draw the graph of  $y = x^2 - 3x$ .  
Here is her graph.



Write down one thing that is wrong with Brogan's graph.

*The points should be joined with a curve and not straight lines.*

(1)

8. Write these numbers in order of size.  
Start with the smallest number.

0.524  
3  
0.524

0.524  
2  
0.524

0.524  
4  
0.524

0.524  
1  
0.524

0.524444...  
0.524242...  
0.524524...  
0.524000...

(2)

# [www.corbettmaths.com](http://www.corbettmaths.com)



## Corbettmaths

[Welcome](#)

[Videos and Worksheets](#)

[Primary](#)

[5-a-day](#) ▾

[More](#) ▾

Welcome

**5-a-day**

**Videos**

**Worksheets**

# 5-a-day GCSE 9-1

Numeracy 5aday – broadly designed for students aiming for Grades 1, 2 and 3.

Foundation – broadly designed for students aiming for Grades 3 and 4.

Foundation Plus – broadly designed for students aiming for Grades 4, 5 and 6.

Higher – broadly designed for students aiming for Grades 6 and 7.

Higher Plus – broadly designed for students aiming for Grades 8 and 9.

## FEBRUARY ANSWERS – CLICK HERE

11th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)

12th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)

13th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)

14th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)

15th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)

16th February [Numeracy](#) [Foundation](#) [Foundation Plus](#) [Higher](#) [Higher Plus](#)





Solve

$$5(x - 1) = 4(x + 2) + 2(x - 7)$$

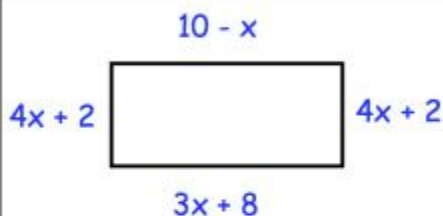
Simplify

$$\frac{s^3 \times s^4}{s^2}$$



Shown is a sphere with a radius of 5cm.  
Calculate the volume of the sphere.  
Give your answer to 1 decimal place.

Here is a rectangle  
All measurements are in centimetres.

Work out the value of  $x$ 

Find the area of the rectangle

# Mathswhiteboard.com

## Teaching tools



### Maths White Board

"Modelling, mini white board and on-screen consolidation activities



### Blank White Board

Share your thoughts, import images and write over other websites



### Term Planner

Organise the site resources into an easy to use planner



### Level Up

A numeracy programme designed to strengthen the foundations of Maths

CURRENTLY TRIALING



### Mark It

An efficient way of digitally marking exit tickets and homework

CURRENTLY TRIALING

## Printables



### Work Sheet Generator

Customise your own Maths worksheets



### Scavenger Hunts

Create your own Maths scavenger/treasure hunt



### Word Searches

Create your own Maths word search



### Link Sheets

Create your own match up task



### Loop Cards



### Revision Cards

LOGIN REQUIRED



### Revision eBook




LOGIN REQUIRED



### Code Breakers







# Work Sheet Generator

The alternative to creating your own is to grab one of my quick takeaways (15 questions on commonly occurring topics from recent past papers).







Foundation:  Higher:  Or common numeracy based questions: 

Based on the 2022 advanced information from exam boards:







**AQA** 

F P1:  F P2:  F P3:   
H P1:  H P2:  H P3: 

**edexcel** 

F P1:  F P2:  F P3:   
H P1:  H P2:  H P3: 

**OCR** 

F P1:  F P2:  F P3:   
H P1:  H P2:  H P3: 

1★ Lines of symmetry, 2★ Draw in  $x=a/y=a$  mirror lines, 3★ Reflect a shape in given  $x=a/y=a$ , 4★ Reflect a shape in  $x=a/y=a$ , 5★ Reflect a shape in given  $y=x/y=-x$ , 6★ Describe the transformation

Skill level:

Number of questions:

2★

1

Qu 14



Quadratic and cubic functions



1★ Table of values for simple quadratics or cubics, 2★ Table of values for harder quadratics or cubics, 3★ Draw a quadratic or cubic function, 4★ Identify quadratic and cubic graphs, 5★ Estimate values from a graph

Skill level:

Number of questions:

3★

1

Qu 15



Draw/Interpret a bar chart



1★ Create a tally chart from a list of data, 2★ Interpret a tally chart, 3★ Draw a bar chart, 4★ Interpret least/most common or frequency from a bar chart, 5★ Problem solving

Skill level:

Number of questions:

4★

1

Please note the worksheet generator does not currently support the rendering of worksheets on iPad/tablet/mobile devices.

+ ADD A NEW SKILL

CLEAR PREVIEW

CREATE WORKSHEET

QU 4 • Divide a quantity into a given ratio

Divide 91 into the ratio 6:7.

QU 5 • Solve linear inequalities

Solve  
 $5x + 6 > 16$

QU 6 • Multiply or divide fractions

Fill in the missing blanks:

$$\frac{2}{3} \times \frac{\square}{\square} = 1$$

QU 7 • Read/Represent inequalities on a number line

Identify the inequality:



QU 8 • Compound measures

Convert the following into  
 hours and mins:  
 616mins

QU 9 • Operate with integers (x and +)

What is  $(-1) \times 1$ ?

QU 10 • Calculate simple probabilities

Find  $P(5 \text{ or more})$  from the  
 sum the numbers on a  
 counter & a die?

	1	2	3	4
1	2	3	4	5
2	3	4	5	6

QU 11 • Solve a quadratic by factorising

Solve the following  
 quadratic by factorising:  
 $x^2 - 12x + 36 = 0$

QU 12 • Calculate relative/expected frequency

If there are 20 balls in the  
 bag, complete the table:

Colour	Black	Red	Blue	Green
Frequency	4	2	?	?
Rel. Freq.	0.2	?	0.4	0.3





ANS 4 • Divide a quantity into a given ratio

42:49

ANS 5 • Solve linear inequalities

$$x > 2$$

ANS 6 • Multiply or divide fractions

$$\frac{3}{2}$$

ANS 7 • Read/Represent inequalities on a number line

$$x < -1$$

ANS 8 • Compound measures

10hrs and 16mins

ANS 9 • Operate with integers (x and +)

-1

ANS 10 • Calculate simple probabilities

$$\frac{3}{8}$$

ANS 11 • Solve a quadratic by factorising

$$(x - 6)(x - 6) = 0$$

$$x = 6, x = 6$$

ANS 12 • Calculate relative/expected frequency

Colour	Black	Red	Blue	Green
Freq.	4	2	8	6
Rel. Freq.	0.2	0.1	0.4	0.3



# Thegcsemathstutor.co.uk

## PAPER 1

Every Topic on the 2022 Advanced Information  
Edexcel Revision Checklist (Foundation)



### Number

- Estimations ☐
- Product of Prime Factors ☐
- Money Calculations ☐
- Fraction of an Amount ☐
- Fraction Calculations ☐
- Standard Form Conversions ☐
- Standard Form Calculations ☐
- Place Value ☐
- Ordering FDP ☐
- Negative Numbers ☐

### Ratio & Proportion

- Length Conversions ☐
- Percentage of an Amount ☐
- Percentage Increase ☐
- Write as a Ratio ☐
- Share in a Ratio ☐
- Direct Proportion ☐
- Speed, Distance, Time ☐
- Density, Mass, Volume ☐

### Algebra

- Simplification ☐
- Substitution ☐
- Linear Inequalities ☐
- Quadratic Equations ☐
- Quadratic Graphs ☐
- Linear Sequences ☐

### Geometry

- Reflections ☐
- Plans and Elevations ☐
- Angles in Polygons ☐
- Volume of a Cube ☐
- Volume of a Cylinder ☐
- Exact Trig Values ☐

### Probability

- Probability ☐
- Frequency Trees ☐

### Statistics

- Pictograms ☐
- Bar Charts ☐
- Stem and Leaf Diagrams ☐

[www.thegcsemathstutor.co.uk](http://www.thegcsemathstutor.co.uk)

### Revision Videos

Everything you need  
to get a Grade 5  
(Higher & Foundation)



Everything you need  
to get a Grade 6-9  
(Higher Only)



### Formula Videos

All the GCSE Maths  
Formulas Grade 5+  
(Higher & Foundation)



All the GCSE Maths  
Formulas Grade 6-9  
(Higher Only)

