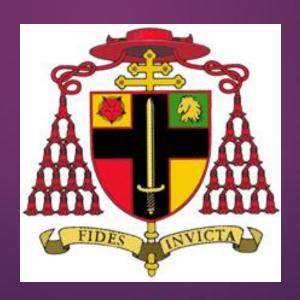
Supporting your child: GCSE Mathematics



MATHS: What is assessed & how?

- ▶ We follow **Edexcel GCSE Mathematics**.
- ▶ Year 11 students will be sitting three 1hour 30minutes examinations.
- ► The first exam paper will be Non-calculator, the second/third will be Calculator.
- ▶ The exam dates are as follows:
 - Friday 20th May 2022 9am (Non-calculator)
 - ► Tuesday 7th June 2022 9am (Calculator #1)
 - ► Monday 13th June 2022 9am (Calculator #2)
- ▶ Each exam paper has 80 marks. The total marks is out of 240.

How Will We Help?

- ▶ We have nine maths lessons every two weeks maths (almost) every day!
- ▶ Pupils will be given homework each week. These must be completed to the best of their ability, so your teacher can give good, useful feedback.
- ▶ We will provide revision materials and guidance leading up to all assessments.
- ▶ Pupils will be working on key maths topics during registration 1-2 times per week
- ▶ We have a paid subscription to MathsWatch video clips and tutorials to help guide you when you get stuck. This can be downloaded as an app for mobile phones and tablets also.

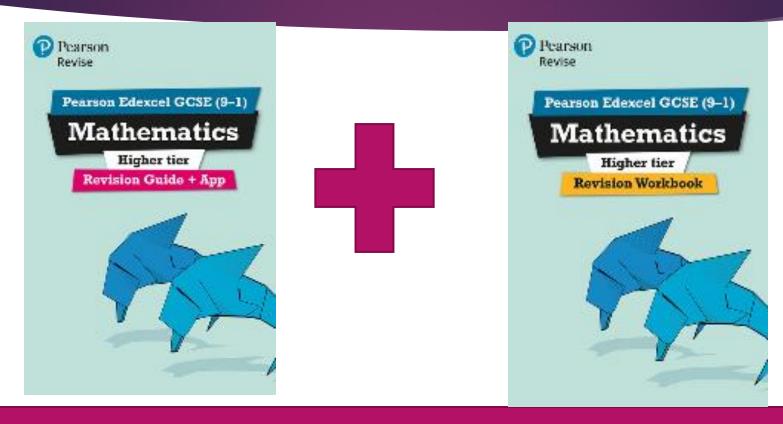
(vle.mathswatch.co.uk)

<u>Log In Instructions:</u> Username: **(your school log-in)@cardinal-heenan** (e.g. 17jonesp@cardinal-heenan)

Password: (your school log-in)@cardinal-heenan (all lowercase)

LINK: https://vle.mathswatch.co.uk/vle/

Revision guide, app and workbook - £6



Along with: KNOWLEDGE ORGANISERS & ADDITIONAL REVISION BOOKLETS, distributed throughout the year.

Revision guide – Key features

Worked example

Target 6

(a) Expand and simplify $(3p-4)^2$

(2 marks)

$$(3p-4)^2 = (3p-4)(3p-4)$$

= $9p^2 - 12p - 12p + 16$
= $9p^2 - 24p + 16$

	3р	-4
3р	9p ²	-12p
-4	-12p	16

(b) Expand and simplify x(x-2)(x+3) (2 marks)

$$x(x-2)(x+3) = x(x^2 + 3x - 2x - 6)$$

= $x(x^2 + x - 6)$
= $x^3 + x^2 - 6x$

Be careful with the negative signs:

$$-4 \times -4 = 16$$
 $3p \times -4 = -12p$

Examiners' report

If you have to multiply three factors, don't try to do it all in one step. Expand (x-2)(x+3) and write brackets around the whole expansion. Then multiply every term inside the brackets by x.

Check it!

Target

grade

grade

Try an easy value, like x = 5 $x(x-2)(x+3) = 5 \times 3 \times 8 = 120$ $x^3 + x^2 - 6x = 125 + 25 - 30 = 120$

Real students have struggled with questions like this in recent exams - be prepared!

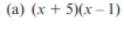


Now try this

grade

Target grade



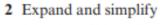








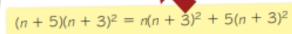
(2 marks)



(a)
$$x(x + 3)(x + 9)$$

(b)
$$(n + 5)(n + 3)^2$$





KEY FEATURES

- Worked example
- Target grade
- Feedback from examiners
- Questions to try
- Video solutions
- Addition practice in workbook

Formative/Mock Assessments

- Formative assessments
 - Your son will complete formative assessments (two per half term) to identify gaps in knowledge
 - You will receive a text message to inform you if your son requires additional work on particular topics, and MathsWatch intervention will be set to close the gaps.
- Mock assessments:
 - ▶ Week commencing 13th December 2021
 - ▶ Week commencing 21st March 2022
 - ➤ Year 11 will sit a full mock of <u>three assessments</u> one non-calculator, and two calculator exams, all 1 hour 30 minutes each.
 - Good revision is essential, particularly for topics not studied for a little while. Revision plans will be given and emailed to parents.
- ▶ This will give us an indication of your sons potential GCSE result.

8 week revision plan for MathsWatch

		Number	Algebra	Ratio & Proportion	Geometry & Measures	Probability & Stats	otal time of clips (OMI	Grade:	ompleted
Week 1	Monday	32			48, 49, 50, 54, 55, 56		7 mins	2	
	Tuesday	66, 67, 68, 69	93,94,95	105	112		9 mins	3	
	Wednesday								
	Thursday	70, 71, 72, 73, 74	96,97	106			8 mins	3	
	Friday								
	Saturday								
	Sunday	75, 76, 77	98,99	107	113		7 mins	3	
Week 2	Monday	78, 79, 80	100, 101		114a/b, 115		8 mins	3	
	Tuesday	81, 82, 83	102, 103, 104			125, 126	8 mins	3	
	Wednesday								
	Thursday	84,85			116, 117, 118, 119	127a/b	8 mins	3	
	Friday								
	Saturday								
	Sunday	86, 87, 88, 89		108, 109, 110, 111		128, 129	10 mins	3	
Week 3	Monday	90, 91, 92			120, 121, 122, 123, 124	130a/b	10 mins	3	
	Tuesday	131, 132	133		145, 146a/b, 147		7 mins	4	
	Wednesday								
	Thursday		134a/b, 135(a or b)	142, 143	148		6 mins	4	
	Friday								
	Saturday								
	Sunday		136, 137	144	149		4 mins	4	
	Monday		138, 139, 140, 141			151	5 mins	4	
	Tuesday				150a/b	152, 153	4 mins	4	
4	Wednesday								
Week4	Thursday	154, 155, 156		164	165		5 mins	5	
Ž	Friday								
	Saturday								
	Sunday		157, 158, 159a/b		166, 167		6 mins	5	
	Monday		160, 161, 162, 163		168		5 mins	5	
	Tuesday				169, 170, 171	175	4 mins	5	
TU.	Wednesday								
- e	Thursday				172, 173, 174	176	4 mins	5	
ž	Friday								
	Saturday								
	Sunday	177	178, 179, 180				4 mins	6	

How Can You Help?

- Regularly log on to ClassCharts to check for homework which has been set.
- ▶ Log-in to MathsWatch with your son to help him with his homework/revision.
- Purchase the recommended revision guides:

Edexcel Revision Guide and Edexcel Revision Workbook for a total of £6.

(available for Foundation and Higher level)

- ▶ Help your son to revise thoroughly at the lead up to assessment points to help him prepare fully.
- ▶ Help your son to complete the 8 week study plan of MathsWatch clips, which should be an ongoing revision process, several times per week for 10-20 minutes. Please support your son with this by checking regularly to see progress made on this. This should be repeated a number of times.

Track your sons progress - MathsWatch

My Progress







Questions Answered



Acquired Skills



Mastered Skills

Searc	Search By Video Name		Qualification	Standard	Topic		Time Period	
Sea	arch Videos	Q	~	All 🗸	All	~	Academic Year 🔽	
#	Skill	Video		Last Watched	Views	ОММ	Interactive Questions	Last Attempted
A11c		Sequences - Finding to	ne nth Term	18:31 15/9/2021	1	0	0/	I
A25		Trial and Improvement	- Harder Questions	18:48 15/9/2021	1	0	0 /	I
A26a		Further Simultaneous	Equations - Introduction	18:21 28/9/2021	1	0	10 / 26	18:31 28/9/2021
A26b		Further Simultaneous	Equations - Solving		0	0	24 / 60	19:32 28/9/2021
A26c		Further Simultaneous	Equations - Real-Life Context	s 15:21 2/10/2021	1	0	0 /	I
A27a	O	Regions - Basics		15:37 2/10/2021	2	0	8/8	15:34 2/10/2021

ONMATHS – Free graded practice papers

- Online practice papers with feedback on areas to improve and videos to help.
- https://www.onmaths.com/

Useful revision websites

<u>Useful revision websites:</u>

- MathsWatch https://vle.mathswatch.co.uk/vle/
- Hegarty Maths https://www.youtube.com/user/HEGARTYMATHS
- OnMaths https://www.onmaths.com/
- MathsMadeEasy https://mathsmadeeasy.co.uk/gcse-maths-revision/
- Corbett Maths https://corbettmaths.com/
- ► GCSE bitesize https://www.bbc.com/bitesize/levels/z98jmp3