How to revise for GCSE Mathematics



Follow us on Twitter @CamsMaths for good questions to support revision, key dates, sharing resources and top tips. $\frac{\text{NUM}\sum \text{R4CY}}{\text{NUM}\sum \text{R4CY}}$

Notes for the slides

- 1 New Twitter account for Maths Dept. Please follow us pupils and parents for reasons on slide.
- 4 All recommended websites. We can measure useage on Mathswatch, Pixl Maths App and Seneca Learning. On Maths includes practice papers which will give you a running total of marks, which help build confidence to next grade. Gojimo free app with 5Q quizzes best way to revise Maths is little and often. Maths Genie has past papers. Corbett Maths also very good.
- 7 Examples of pupils' revision completing checklist, look up Mathswatch clips, practice at target topics. Other ways pupils revise Corbett Maths postcards
- 8 Different examples as pupils revise in different ways but we share these in class, as it may help less reluctant pupils find a way that works for them. Post-it notes around the house can also help.
- 9 Some sheets handed in (for evidence of time doing hw revision) have been sparse but as long as evidence is available in other forms time on Mathswatch, practice papers, progress in test scores we don't mind.
- 10 We like to celebrate success by picking out individuals for specific questions and skills they have got right.
- 13 Top scores in a class are also celebrated, as well as progress from the previous week! Some staff put this to pop chart countdown music!
- 14 Staff make notes whilst marking papers, so they can celebrate the successes and identify key errors and topics that need revisiting in either whole class revision or small group intervention.

Notes for the slides continued

- 15 Records of data kept to monitor progress and deal with any concerns. The RAG-ing of topics is also done with the sets of Mock papers and pupils/parents receive copies of these after each round of mocks.
- 16 Staff can track time spent on Mathswatch. This is a first port of call for pupils who are underperforming on tests and have not been spending time on this site.
- 17 One member of staff noticed that those who had been on Mathswatch were coming up around 5 marks higher the next week. Others had actually gone down, partly due to a harder paper but not helped by not submitting any evidence of revising.
- 18 Pros and cons here. The peaks correspond to the night before the tests! Pupils will perform better over time if they spend around 20 mins per night revising Maths rather than bulk revision close to the exam, where it is less likely to stick.
- 19 Staff can see exactly how much time each pupil is spending on Mathswatch, down to which videos they have watched, etc.
- 20 Data for Year 11 during February.
- 21 Pupils have revision sheets like this example to support their revision for the Mocks in March. Some topics they already know, so have been advised to make the revision worthwhile by focusing on the "Red" topics. These lists are not absolutely everything (a full list is available on Mathswatch) but we have picked out common topics that always seem to come up and if they know all these skills well, they are giving themselves the best chance of securing their target grade or better!

Useful websites:

- Mathswatch https://vle.mathswatch.co.uk/vle/
- Pixl Maths App https://mathsapp.pixl.org.uk/PMA2.html
- Maths Genie
- https://www.mathsgenie.co.uk/
- On Maths
- https://www.onmaths.com/
- Seneca Learning https://app.senecalearning.com
- Gojimo App

New initiative:

Weekly past paper done in test conditions every Friday.

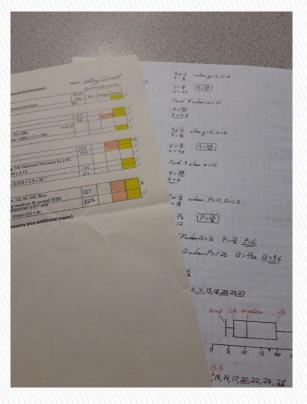
50-55 minute tests with focus on improving skills in first half of the paper but with other multi-step questions available to stretch and challenge those who need it.

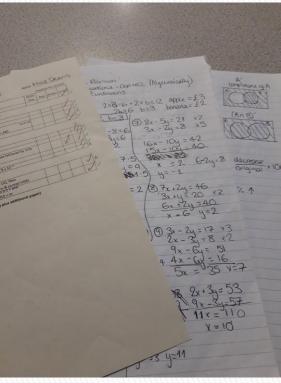
We provide loads of resources in the build up to the final exams and decided we need to start modelling these activities now, to ensure the pupils are ready for same format later.

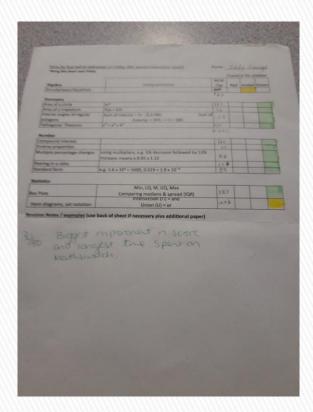
Testing

- Support for tests revision sheet devised with key skills listed in sections in alphabetical order, with hints/reminders of key info, errors to avoid, etc.
- Space given for pupils to look up and use Mathswatch clips, RAG their understanding and write notes.

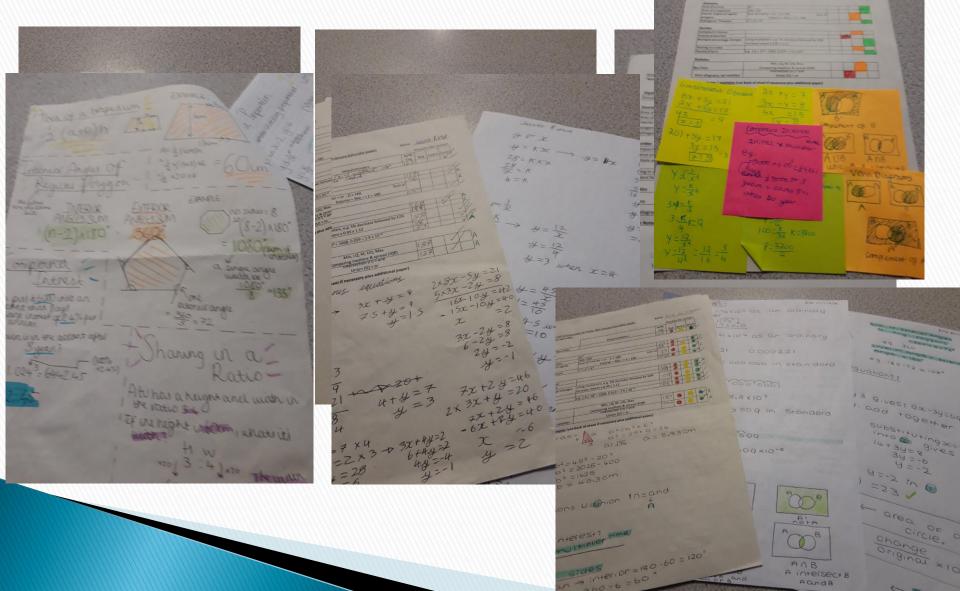
Results and feedback - sharing good practice



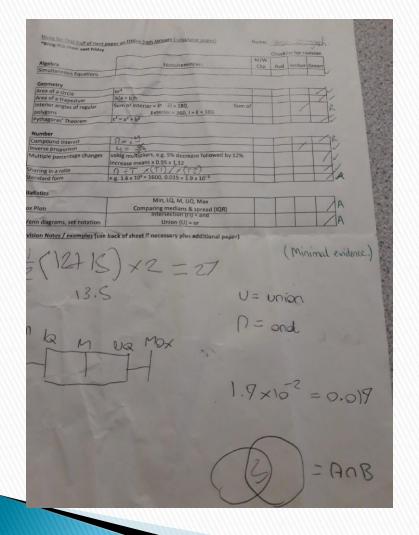


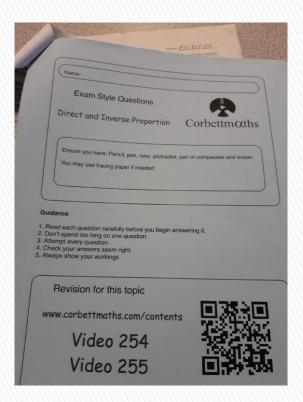


Results and feedback - sharing good practice



Results and feedback - sharing good practice





Corbettmaths Revision Cards



CELEBRATE THE SUCCESSES

<u>Jaydn</u> – always puts the brackets in factorising!, Q9, Q11-13, Surface area, VECTORS and TRIG!!

<u>Adele - Q5</u>, factorising - yes!, Q9, Q11 and correct with simple interest!

Mollie - Q10, full marks on stem and leaf!, Q12 scale drawing and excellent number problems (Q13&15)

CELEBRATE THE SUCCESSES

Brad- Q7 correct, Q18 (2/3 marks) and one of only 2 people to get Q20 correct

<u>Daisy</u> - Q2, Q4, Q8 (2/3 marks), Q9 and Q13 fully correct and.....

BEAT PREVIOUS SET OF PAPERS BY 12 MARKS!!!!!

Ben T - Q1 (one of only 2 people!), Q4 and Q5 fully correct

Ben H— one of only six to get Q13a fully correct!

CELEBRATE THE SUCCESSES

Lara- Q1, Q13 fully correct!

Henry - Q7 full marks, Q11 (3 marks), Q18 correct... (only one in the class!)

<u>Lewis -</u> Q1, Q5 (1 of only 4 people!), Q7, Q9 fully correct!

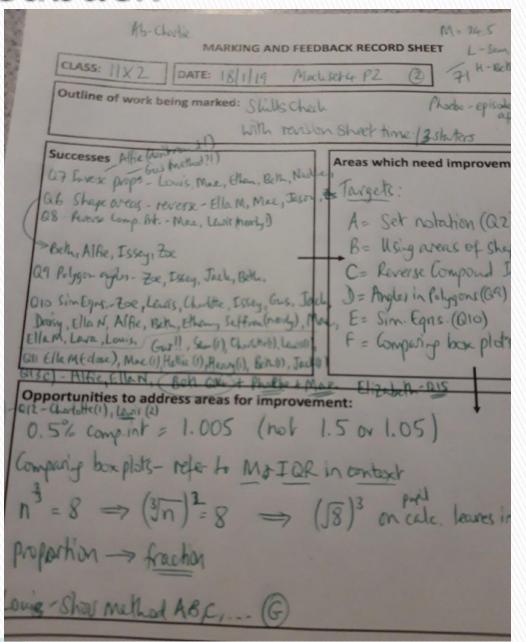
Alfie - Q2 (1 of only 5 people!) and Q11 (2 marks),

Results and Feedback - top scores!

This week Last time Total marks	

Results and Feedback

Celebrating success!



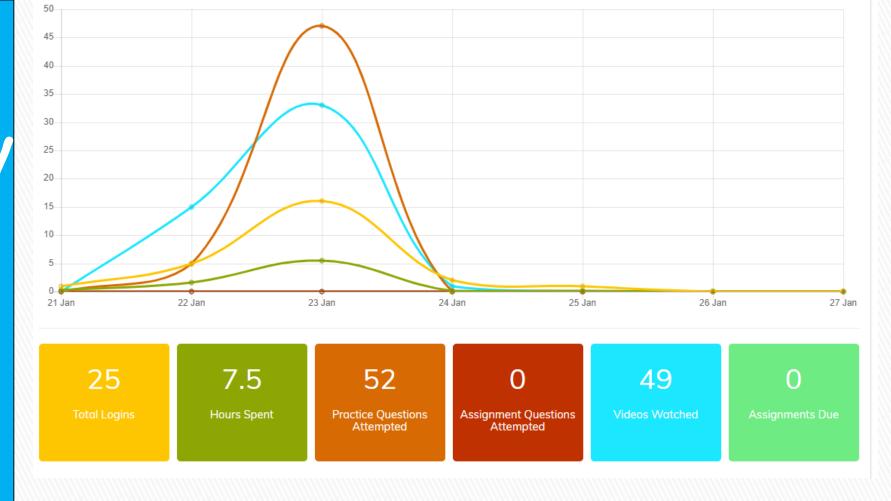
Results and Feedback

Number of Greens	Average test Score	P1 Total marks - no RAG	Simultaneous Equations	of a circle	of a trapezium	or angles of regular polygons	Pythagoras' Theorem	Compound Interest	Inverse proportion	Multiple percentage changes	Sharing in a ratio	Standard form	Plots	Venn diagrams, set notation	P2 Total marks	Minutes spent on Mathswatch
Num	Avera	P1 To	Simu	Area	Area	Interior	Pytha	Comp	Invers	Multi	Sharii	Stand	Box P	Venn	P2 Tc	Minu
un _N	Avera	27 P1 To	™ Simul	- Area	» Area	- Interio	[™] Pytha	<mark>- Comp</mark>	- Invers	™ Multi	™ Sharir	Stand	[∞] Box P	∞ Venn	25 P2 T 0	o Minu
				Area	Area								Box			
4	26	27	g	- Area	Area	r	g	r	r	g	g	а	■ Box	а	25	0
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4 4 6 5 5	26 27 26 24 30	27 29 25 25 25 34	g a g g	m r Area	a a Area	r a r r	p0 p0 p0 p0	r r r	r a b a	a ao ao	DO DO DO	a a g a	a a a a	a a a a	25 24 27 22 25	0 32 63 2 16



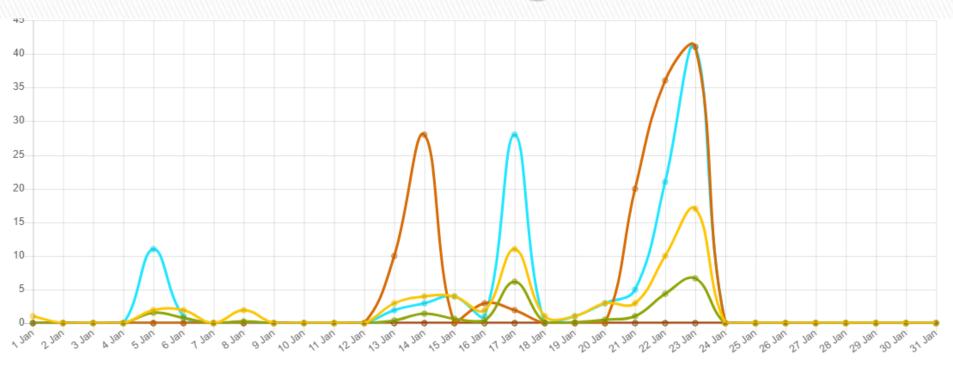






Paper 2 Average = 24 Paper 3 Average = 26.5 Average = +4.5 marks
Average = + 2.3 marks
Average = - 3.2 marks

Mathswatch usage



66

Total Logins

25.1

Hours Spent

140

Practice Questions Attempted 0

Assignment Questions Attempted 121

Videos Watched

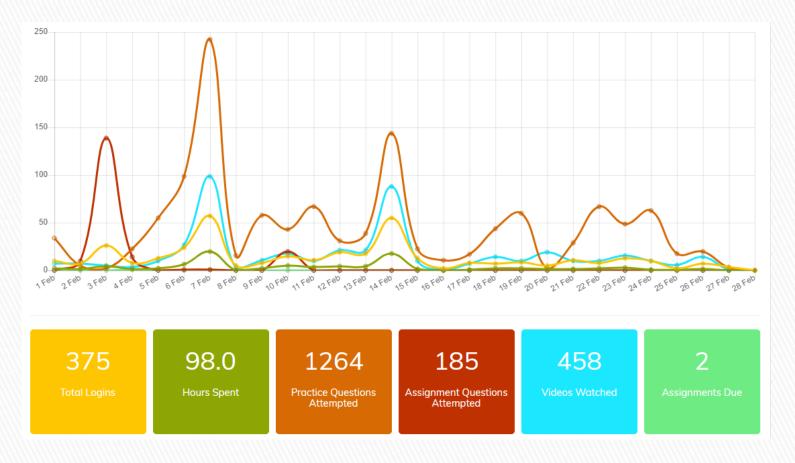
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Assianments Due

Mathswatch usage

Logins	Minutes Spent ▼	Practice Questions	Assignment Questions	Videos
8	176	61	0	14
7	175	0	0	14
2	162	0	0	16
3	146	22	0	13
4	113	0	0	8
2	95	0	0	5
3	89	2	0	9
4	82	0	0	8
5	80	0	0	5
3	70	0	0	8
3	69	31	0	1
6	59	0	0	3
4	49	0	0	3
3	33	0	0	5
2	32	9	0	3

Year 11 activity on Mathswatch during February



Top 10 Year 11 users who are present tonight:

Cams Hill's Top Topics (Higher)

Data Handling	MW	R	Α	G	Number and Algebra	MW	R	Α	G
1.Stem-and-Leaf	128b				28. Index notation and index laws,	29, 76,			
					reciprocals	82, 131,			
						154, 188			L
2.Two Way table inc. text questions	61				29. Standard Form	83			
3. Frequency polygon	65b				30. BIDMAS, negatives, long	19, 20,			
					multiplication and division	68, 75			
4. Scatter Graphs	129				31. Prime Factors, product of primes, HCF & LCM	28, 78-80			
5. Averages – grouped table	130				32. Error intervals	132, 155			
6. Stratified Sampling	176				33. Estimation	90-1			
7. Tree Diagrams	151, 175,				34. Forming	135, 137			Г
	204				expressions/equations, solving				
					linear equations				
8. Probability with Venn diagrams	127, 185				35. Inequalities	138-9,			
						198			L
9. Cumulative Frequency	186				36. Direct and inverse proportion	199			
10. Boxplots	187				37. Equation of a circle	197			
Shape, Space and Measure	•		38. Iterative processes	180					
11. Loci / Constructions	145-7, 165				39. Fractions – 4 operations	70-4			
12. Basic vectors	174				40. Linear and geometric	102-3, 163			\vdash
					sequences, nth term	,			
13. Reflections, rotations, translations	48-50				41. Quadratic sequences	213			
14. Enlargements	148, 181				42. Simplifying expressions,	33-35, 94,			
					substitution, factorising	95			