BROOKFIELD COMMUNITY SCHOOL

COMMITTED TO EXCELLENCE

Y11 Study Skills Evening 2022
Mathematics

Part Of The
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Path to Examinations

Classwork
Topical Revision linked to the advanced notice for GCSE
Test Cycle to improve our execution of exam questions
Staters are based on exam weaknesses
Test cycle data will inform teach for the following 2 weeks

Homework
10 weekly mathswatch questions relating to Paper1, Paper 2, Paper 3.
These will be for recapping only

Topic Based Revision
Mathswatch tasks will be set by your teacher
Students should also use their tesy cycle feedback to support their own revision on mathswatch.
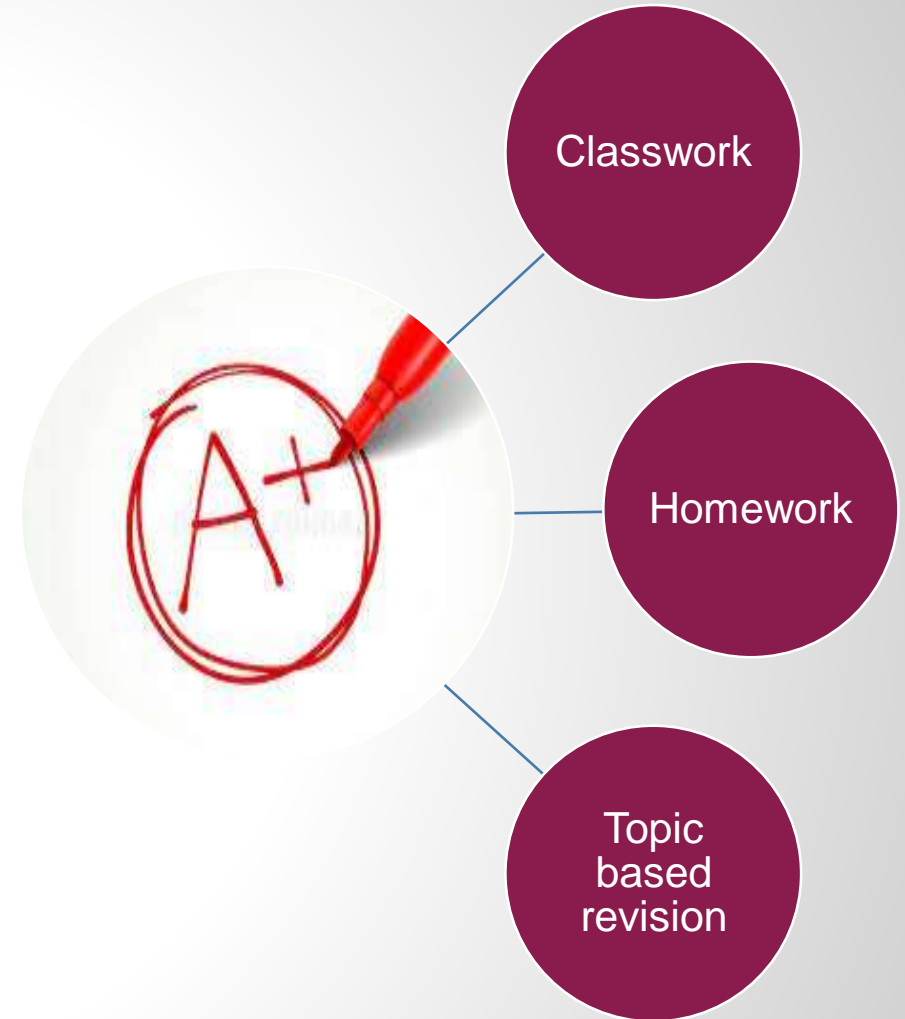
Classwork

Homework

Topic based revision

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Advanced Notice

Foundation

Paper 1

	Number (see Ratio)	Clip
Arithmetic	Four operations	17,18,19,20
	Negative number	68
	Order of operations	75
	Estimation	91
Fractions	Arithmetic	71,73,74
	Fraction of a number	72
Indices	Laws of Indices	82
Standard Form	Conversion	83
	Calculation	83
Other	Inequality notation	138
	Systematic listing	58,69

Brookfield Community School Maths Dept Revision Cycle.

Things that we do in maths to aid exam preparation:

- We do not assume students know how to revise

- We ask all students to follow our revision cycle

- We monitor results of students
  and plan our lessons
  around these results

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Brookfield Community School Maths Dept Revision Cycle.

- The best way to show what we do is to make you part of it.

- You all have three maths questions in front of you and you have 2 minutes, in exam conditions, to answer them.
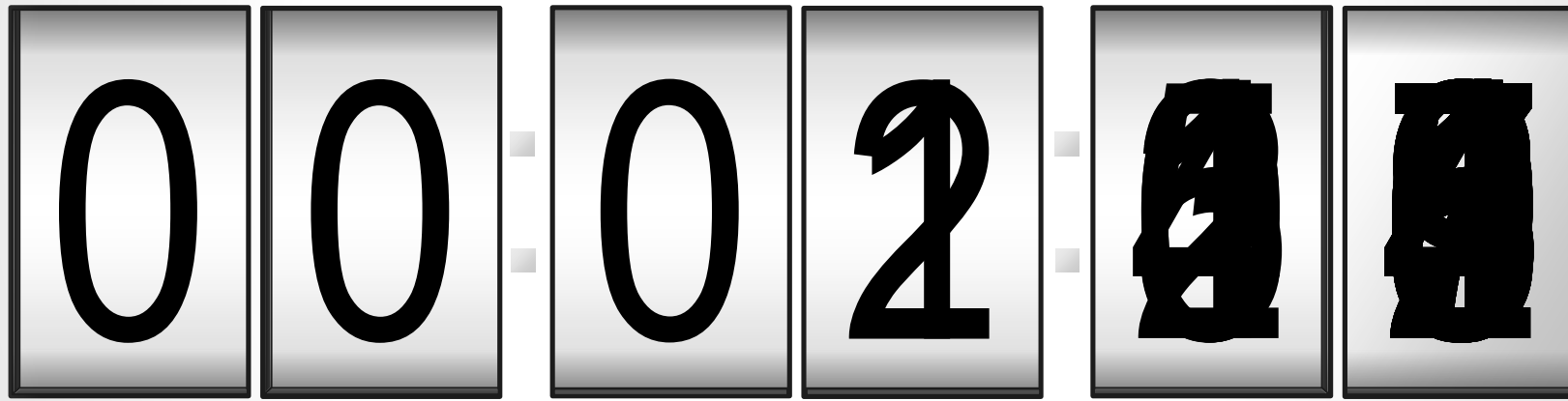
- You are now allowed to confer with others

Brookfield Community School Maths Dept Revision Cycle.

Hours   Seconds

Brookfield Community School Maths Dept Revision Cycle.

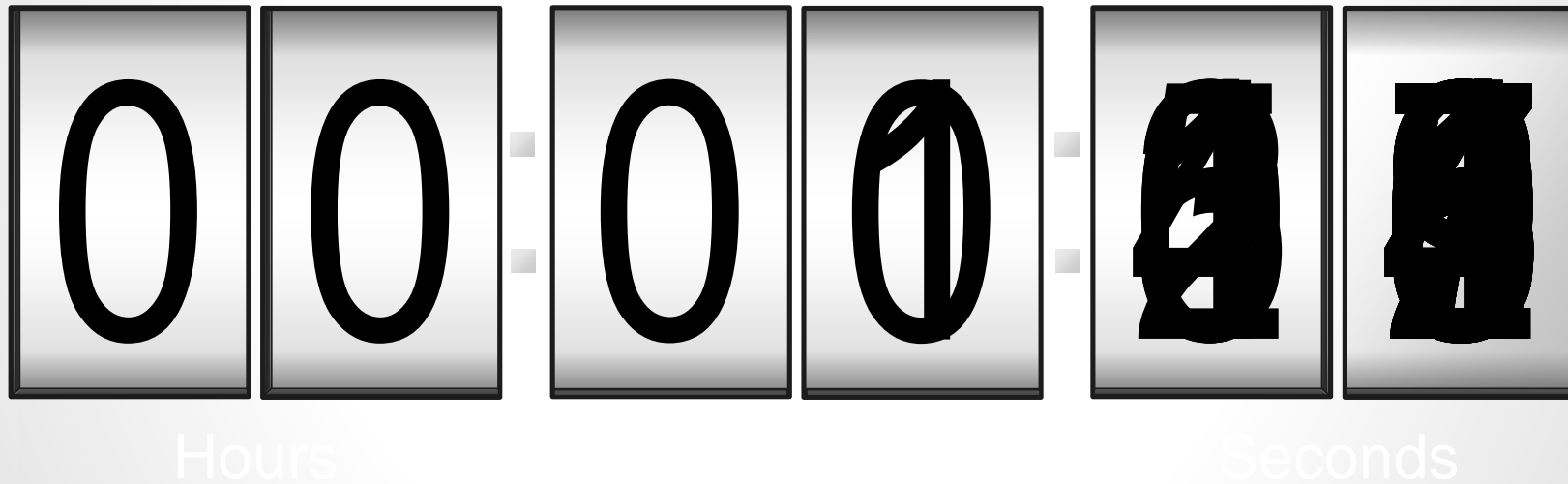Hours   Seconds

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Brookfield Community School Maths Dept Revision Cycle.

We then use a lesson to go through the test paper with students and react in red pen all over the test.

Q1 Each week Farooq is given a spelling test.

Here are his marks.
Each mark is out of 20.

17   13   17   16   14   15   15   18   17   17

(a) Write down the mode.

Mode = Most

17 occurs the most

[1 mark]

Answer _____ 17 _____

(b) Work out the range of his marks.

18 – 13 = 5

Range = Big - Small

[1 mark]

Answer _____ 5 _____

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Q2 The number of emails Leanne sent this week is 20% more than last week.

This week Leanne sent 240 emails.

Work out how many emails Leanne sent last week.

[2 marks]

Last Week   This Week
100%   120%

x 2

200 emails 240 emails

x 2

Answer _____ 200 _____

Do NOT find 20% and then take it off
240 – 48 = 192

Q3

A

$4x$

Equal Sides

Not drawn accurately

$3x + 20$ $5x - 8$

B   C

Equal Angles
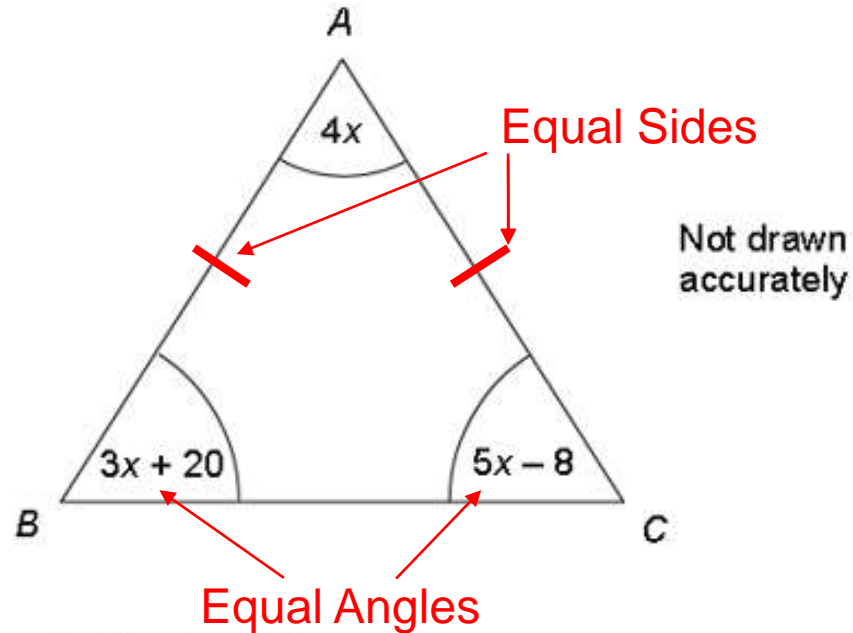
The angles in triangle *ABC* are given in degrees.

Prove that *AB = AC*.

[4 marks]

$5x - 8 = 3x + 20$

$- 3x$

$2x - 8 = 20$

$+ 8$

$2x = 28$

$\div 2$

$x = 14$

$- 3x$

$+ 8$

$\div 2$

$3x + 20 = 3 \times 14 + 20 = 62°$

$5x - 8 = 5 \times 14 - 8 = 62°$

Angle B = Angle C and so AB = AC

FEEDBACK

We then take the test papers in to mark and produce an individualised grid of how students have achieved on each question.

- We then take the test papers in to mark and produce an individualised grid of how students have achieved on each question.

- Students then use this to select topics they can go away and research for themselves (this is monitored by staff).

- Staff also use the grid to inform the planning of lessons.

Name	Out of	Q1 Decimal Multiplication Factors (Clip28)	Q2 Simplifying Expressions (Clip 33)	Q3 Unit Conversions (Clip 112)	Q4 Properties of Quadrilaterals (Clip 9)	Q5 Directed Number (Clip 68a)	Q6 Money Problem Solving (Clip 22a)	Q7 Primes & Factors (Clip 78)	Q8 Division & Multiplication (Clip 19)	Q9 Angle Sum of a Triangle (Clip 121)	Q10 Multiplication (Clip 19)	Q32 Factorising Quadratics (Clip 157)	Total	Percentage
Name	Out of	1	1	1	1	1	4	4	4	1	1	2	80	100%
Your Score		1	1	1	0	1	3	2	4	0	1	0	37	46%
Average Joe		0.81	0.69	0.56	0.38	0.75	3.44	1.31	3.56	0.19	0.81	0	33.81	42%

Name	Out of	Q11 Rotational Symmetry (Clip G7)	Q12 Percentages (Clip 87)	Q13 Compound Measures (Clip 142)	Q14 Probability (Clip 59)	Q15 Related Calculations (Clip 92)	Q16 Ratio (Clip 38)	Q17 Adding Fractions (Clip 71)	Q18 Conversion Graph (Clip 107)	Q19 Median (Clip 62)	Q20 Estimation (Clip 91)	Q21 Angles in Parallel Lines (Clip 120)
Name	Out of	2	3	2	2	4	2	3	5	4	3	1
Your Score		0	3	0	2	2	2	0	5	4	1	1
Average Joe		0.19	2.31	0.56	0.94	2.94	1.25	0.63	1.5	2.25	1.81	0.5

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MATHSWATCH

Y11 REVISION WORKSHOP

- The hardest part of revision is knowing how to revise!

- The best way to revise maths is to do maths.

- Answering different types of questions is really important and so the more we can answer as part of our revision, the better.

- Building resilience through exposure to a large variety of questions

Y11 REVISION WORKSHOP

- As a department we will structure their revision for them.

- Your child just needs to follow the systems we have in place.

- It is tailored to their individual needs and has worked in the past.

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ANY QUESTIONS