HIGH IMPACT MATHS REVISION

For Year 11 2017/18



November Exam Dates

Mathematics-Numeracy Unit 1 6th Nov 2017 am

Mathematics-Numeracy Unit 2 8th Nov 2017 am

Mathematics Unit 1 10th Nov 2017 am

Mathematics Unit 2 13th Nov 2017 am

Overall Plan

- All pupils have been given PLCs based on their June results.
- The SOW has been revised in response to our performance in the June exams.
- There will be an expectation that pupils will work independently at home.
- They are being given a past paper each week to focus on.
- There will be a program of voluntary RAG classes after school in the run up to the exams.
- There will be WTMs around the time of the exams.

PLCs



UNIT1

Question		Max	My
Number	Topic	mark	Mark
1a	Find the next2 terms in a sequence	2	2
1b	Substitution into an expression	2	2
1c	Simplifying expressions	2	0
2	Ordering fractions, decimals and percentages	3	3
3a	Reflection in the x axis	1	0
36	Enlargement by a positive scale factor (no centre)	2	1
3с	Translation (no vector notation)	1	1
4a	Calculating probability	1	1
4b	Calculation using probability	1	1
4c	Probability	1	0
5	Number problem	2	2
6a	Listing outcomes	2	0
6b	Using list to calculate probability	2	0
7a	Calculating angles in a quadrilateral using algebra	4	NA
76	Using angle facts to decide if lines are parallel	2	0
8=	Estimation	2	2
8b	Calculation - Using known facts	3	0
9	OCW - Area problem	7	5
10a	Calculate missing probability from a table	2	2
10Ь	Probability - or rule	2	2
10c	Probability - and rule	2	0
11a	Quadratic graph - substitution in equation	1 2	0
116	Quadratic graph - plot points and draw graph	2	1
11c	Quadratic graph - use graph to solve an equation	2	NA
12a	Express a number as a product of its prime factors	3	2
12b	Using powers to justify that a number is not square	1	1
13a	Straight line graphs - Identify equation	1	0
13b	Straight line graphs - Identify points on the line	1	NA
13c	Straight line graphs - Find the gradient	1	0
14	Number problem	3	3
15	Dimensional analysis	3	NA
16a	Venn Diagram - Complete a diagram	3	0
166	Venn diagram - Interpret to calculate probability	2	0
17	Simultaneous equations - Solve algebraically	4	0
18	Calculate using standard form	2	0
19	Write and solve inequalities in context	5	NA
	Total	80	31

UNIT 2

Question Number	Topic	Max mark	My Mark
1a	Calculate a percentage of an amount	2	1
16	Calculate a fraction of a quantity	2	0
1c	Division by a fraction	1	0
1d	Equivalent fractions	1	NA
1e	Identify a recurring decimal from its fraction	1	0
2	T/F - Properties of triangles	3	1
3	Number skills - Primes and factors	2	2
4a	Function machine - Calculate an output	1	1
4b	Function machine - Calculate an input	2	1
5	Averages - find values given mean and range	2	NA
6a	Sequences - generate sequence given nth term	2	2
6b	Sequences - find the nth term rule	2	2
7a	Probability - Relative frequency	1	0
7b	Probability - Expected outcomes	1 2	0
7c	Probability - Expected outcomes	2	1
8	Angles - Interior angles of polygons	4	2
9	Manipulating and simplifying algebraic expressions	3	1
10	OCW - Area problem including trapezium	6	NA
11a	Calculator skills - rounding to significant figures	2	1
11b	Calculate a reciprocal - rounding to decimal places	2	NA
12	Form and solve equations angles in a triangle	5	0
13	Trial and improvement	4	NA
14	Pythagoras' theorem - Finding a missing side	3	NA
15	Construct a triangle - given angles and a pair of compasses	3	NA
16	Trigonometry - Finding a side length	3	NA
17	Probability tree diagram	5	1
18=	Factorise a linear expression - single bracket	1	0
186	Expand - double bracket	2	0
18c	Factorise a quadratic expression	2	NA
192	Straight line graphs - Identify parallel lines from equations	1	NA
19b	Straight line graphs - Identify perpendicular lines from equations	1	NA
20	Circle theorems	2	NA.
21	Trigonometry - Find a missing angle	5	NA NA
	Total	80	16

Intervention

- Some students will hopefully be involved in intervention lessons to support their journey towards grade Cs.
- This will be set up in the next fortnight, once a new member of staff has been appointed.
- In the meantime I will be running sessions during registration and through RAG after school.

Revised SOW

- We have devised a program of topics in the run up to the exams
- They involve some revision of weaker topics and the introduction of some new topics
- All lessons follow the same format with lots of examples and exam questions
- Classes are given a past paper every week to do for homework to track progress.

Students working independently

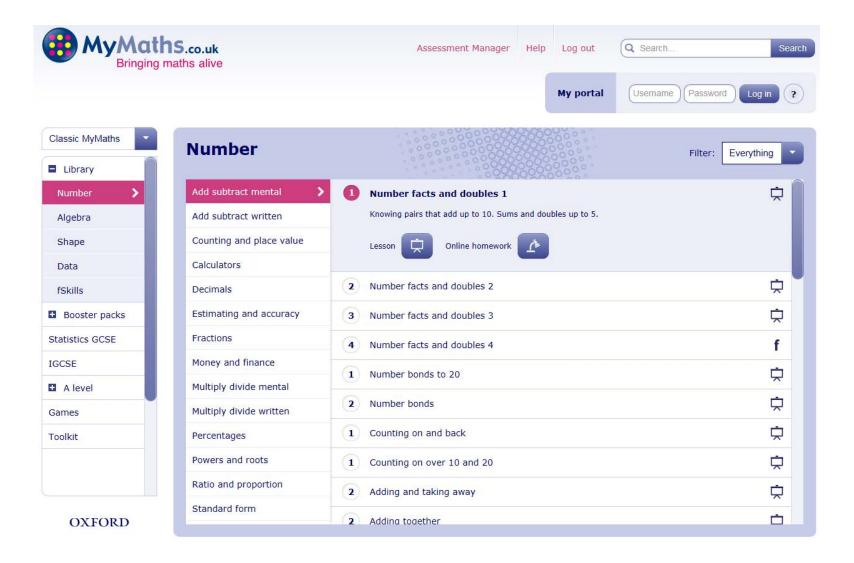
- We highly recommend students to be working independently in preparation for the exams. Without independent revision, you are less likely to reach your target.
- Little and often is best!
- Practise not reading your notes.
- Mymaths
- Corbett Maths

Mymaths (www.mymaths.co.uk)

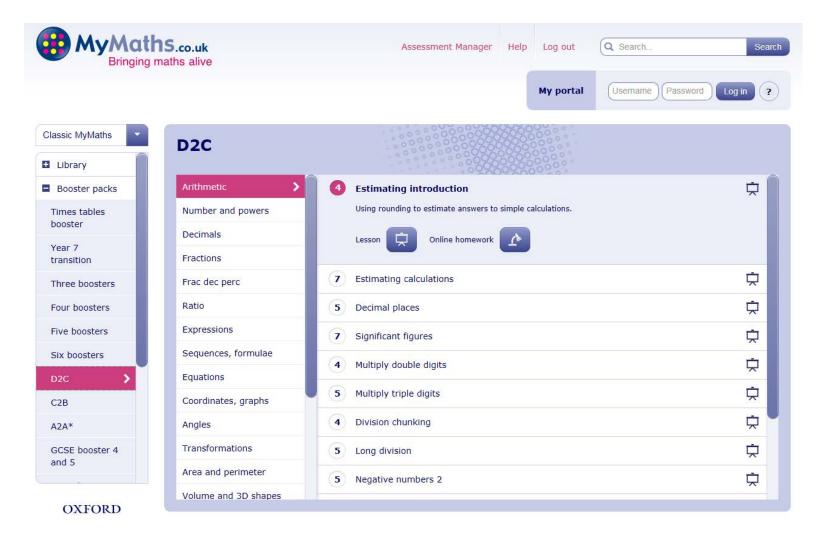
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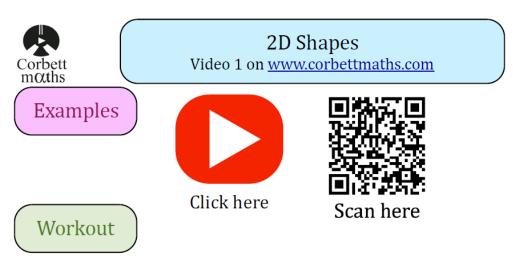
CO PIXL March 17 Maths Intermediate U1

Question	Topic	Video Clip	Max	Mark
1a	Powers	172	2	
1b	Multiplying decimals	94	1	
1c	Subtracting decimals	91	1	
1d	Subtracting fractions (different denominators)	133	2	
2a	Continue a sequence	286	2	
2b	Simplify an expression (two types of term)	9	2	
2c	Substitute into a formula	20	2	
3	Order fractions, decimals and percentages	131	3	
4	Find a percentage of a fraction of an amount	234/137	4	
5	Angles in triangles and quadrilaterals	37/33	5	
6a	Solve an equation with an unknown on both sides	113	3	
6b	Simplify using index form	174	2	
6c	Expand and simplify an expression involving brackets	13	2	
7	Properties of number	225	2	
8	Sample space diagram, probability, expected value	246	8	
9	Volume and capacity of a cuboid	355	4	
	ocw		2	
10	Using averages and range to find a set of values	50/53/56/57	4	

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Question 1: Draw the following shapes

- 0 1
 - (b) A rectangle (c) A circle
- (d) A triangle

- (e) A semi-circle
- (f) A pentagon
- (g) An octagon
- (h) A hexagon

(i) A decagon

(a) A square

(j) A heptagon

Question 2: Name each of the shapes below

(a)



(b)



(c)



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Name:

Exam Style Questions

2D Shapes



Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.

WTM

- Around the time of the exams we will be running Walking Talking Mocks with our classes.
- This is the process of giving hints and tips on a question, letting the pupils have a go and then modelling the correct answer so they get immediate feedback.
- We have found in the past that this has given pupils a lot of confidence in the days before their exams.