



# Gordon's School Mathematics Department

## Key Stage 3 - Curriculum Map



### Key Words / Skills:

#### Command Words

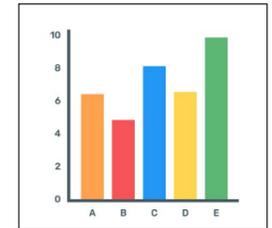
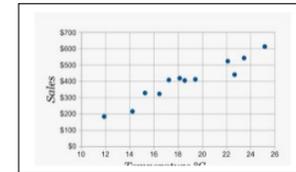
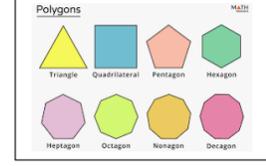
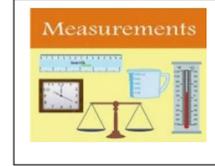
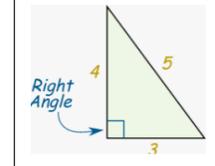
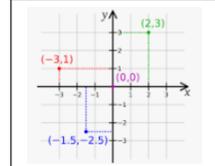
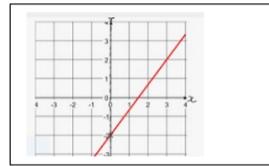
**Simplify** – simplify the given expression

**Solve** – find the solution of an equation or inequality

**Show** – all working needed to get a given answer

**Find** – some working will be needed to get to the final answer

**Calculate** – a calculator and some working will be needed

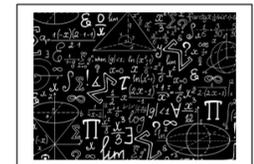


Co-ordinates, Straight Line Graphs, Coordinate Geometry, Real Life Graphs  
End of Year Exam

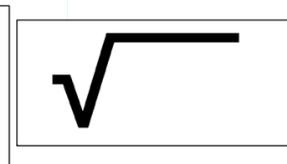
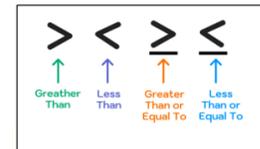
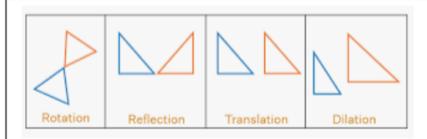
Volume & Surface area, Right-angled Triangles, Ratio and Proportion.

Scatter Graphs, Angles, Polygons, Measurements, Area & Perimeter.

Fractions, Decimals & Percentages, Ratio & Proportion, Data Handling, Data Collection, Representing.



Algebraic Expressions, Substitution, Formulae, Linear Equations, Linear Inequalities, Sequences



Transformations, Data Handling, Rearranging Formulae

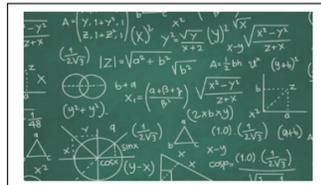
Inequalities, Pythagoras & Trigonometry, Constructions & Loci

Number & Algebra Recap, End of Year Exam

Year 9

Integers, Decimals, Using a Calculator, Rounding, Indices & Roots, Standard Form, Factors, Multiples & Primes Understanding Surds

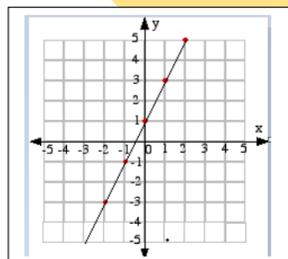
3D Measurement and Similarity, Ratio, Proportion and Rates, Probability



$$\begin{aligned} 2x_1 + x_2 &= 7 \\ x_1 + x_2 - 3x_3 &= -1 \\ 6x_2 - 2x_3 + x_4 &= 1 \\ 2x_3 - 3x_4 &= 13 \end{aligned}$$

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Fraction, Decimal and Percentage Operations, Solving Equations, Linear Functions



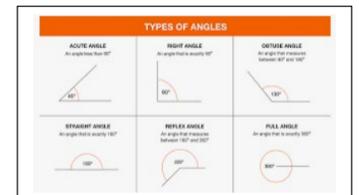
2D Measurement/Area, Sequences, Angle Geometry

Number Properties, Decimals and Estimation, Algebraic Expressions

Year 8

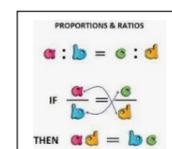
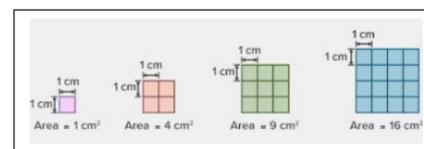
Number & Algebra Recap, End of Year Exam

Probability, Angles & Geometry, Transformations



Ten Thousands (T.Th)	Thousands (Th)	Hundreds (H)	Tens (T)	Ones (O)
1	3	5	4	8

Place value of 1 = 10,000  
Place value of 3 = 3,000  
Place value of 5 = 500  
Place value of 4 = 40  
Place value of 8 = 8



Percentages, Data handling, Sequences

Number Sequences  
3, 5, 8, 13, 22, \_?

Year 7

Place Value, Number Properties, Number Operations

2D Measurement, Area, Algebra

3D Measurement, Linear Functions, Ratio & Proportion