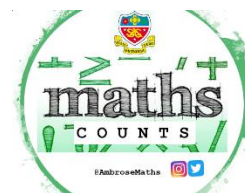





Knowledge Organiser

Lent Half Term1 Set 3

Year 9

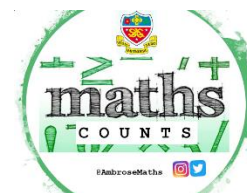


Topic	  			Independent Learning and homework tasks	
				MyMaths	CorbettMaths.com
Finding a percentage of a quantity and one quantity as a percentage of another.				Number, Percentages	Video 235
Increase a quantity by a given percentage with and without a calculator.				Number, Percentages	Video 234, 235
Calculate percentage increase and decrease, profit & loss.				Number, Percentages	Percentage Change video 233
Area and perimeter of 2D shapes and compound shapes				Shape, Area and Perimeter	Videos 42 - 49, Videos 241 - 243
Volume of a prism				Shape, Volume and Surface Area	Videos 355 - 7
Surface Area of a prism				Shape, Volume and Surface Area	Videos 309 - 312
Converting between different metric units of length, area and volume				Shape, Converting units	Videos 349d, e, f
Compound Measure - speed, density and pressure				Shape, Measures, Speed / Density	Speed Video 299 Density Video 384 Pressure Video 385
Using BODMAS for order of operation				Algebra, Expressions and Formulae, Order of Operations	Video 211
Using a calculator for complex calculations				Number, Calculators	Video 352
Round to a given number of decimal places				Number, Estimating and Accuracy	Video 276 - 8
Round to a given number of significant figures				Number, Estimating and Accuracy	Video 279a
Finding angles on parallel lines				Shape, Angles, Angles on Parallel lines	Video 25
Interior and Exterior Angles of a polygon				Shape, Angles, Interior Exterior Angles / Sum of angles of a polygon	Video 32

Knowledge Organiser

Lent Half Term1 Set 3

Year 9



Lent Term 1 Knowledge

Order of operations (BIDMAS)

There is an order to operations:

B (Brackets) - any calculation within a bracket is completed first

I (Indices) – any term with a power is completed second

D (Division) – any division is completed third

M (Multiplication) – any multiplication is completed next

A (Addition) – any addition is completed next in a left to right order

S (Subtraction) – any subtraction is completed last and in a left to right order

Scan for full list of Maths Knowledge



Significant figures and rounding

Numbers may be simplified at times by rounding e.g. we might think of 499dhs as around 500dhs. The example shows 499dhs as rounded to the nearest 100 or to 1 significant figure, since we don't count the zeros as significant.

Angles		
Angles at a point total 360°	Angles on a line total 180°	A right angle is marked by a square and is 90°
Acute angles are less than 90°	Obtuse angles are between 90° and 180°	Reflex angles are between 180° and 360°
Alternate angles on parallel lines are the same	Corresponding angles on parallel lines are the same	Vertically opposite angles are the same

Maths Support

Attend KS3 Maths Clinic every Friday lunch time for extra help and support.

Stretch and Challenge:

- 1) Set up an account on parallel.org.uk website, using your school email address and use teacher code "ha52kh"
- 2) Attend Puzzle Club one lunch time each week