GCSE KNOWLEDGE ORGANISER

First 10 prime numbers			Units of time		Index Laws		Reciprocals			
2, 3, 5, 7, 11, 13, 17, 19, 23, 29			1 minute	60 seconds	$a^{n} \times a^{m} = a^{n+m}$ $a^{n} \div a^{m} = a^{n-m}$ $(a^{n})^{m} = a^{nm}$		Reciprocal of 7 is $\frac{1}{7}$, reciprocal of $\frac{2}{3}$ is $\frac{3}{2}$ etc Percentages			
First 15 square numbers			1 hour	60 minutes						
1, 4, 9, 16, 25, 36, 49, 64, 81,			1 hour	3600 seconds						
First 5 cube numbers			Units of length		$a^0 = 1$		Finding percentage increase or decrease (profit/loss) value of increase/decrease × 100			
1, 8, 27, 64, 125			1 cm	10 mm	$a^{-n} = \frac{1}{a^n}$		Original			
			1 m	100 cm	$a^{\frac{1}{m}} = \sqrt[m]{a}$		Measures of Average			
Equivalent FDP			1 km	1000 m	Sides	Name	Mode: most common piece of data			
Fraction	Decimal	%	Units	of weight	5	Pentagon	Mean: S	: Sum of the data ÷ total frequency		
1/10	0.1	10%	1 g	1000 mg	6	Hexagon	Median:	order the dat	a and find the	, middle value
1/5	0.2	20%	1 kg	1000 g	7	Hentagon	Range: H	lighest value -	- lowest value	
1/4	0.25	25%	1 tonne	1000 kg	8		-		Turner of Tuic	
1/3	0.3	33.3 [.]	Units o	Units of capacity		Nonagon	Types of	s of angle		
1/2	0.5	50%	1 litre	1000 ml	10	Decagon	Acute angle		Equilateral	60°
3/4	0.75	75%	1 litre	1000 cm ³	10	Hendecagon	Right			60° 60°
Segment					12	Dodecagon	angle		Isosceles	^
Chord Sector					Polygons Exterior angles of any polygon sum to 360°		Obtuse angle Reflex		Scalene	
Diameter			Radius		Sum of interior angles of polygon : 180 x (n-2)		angle			







