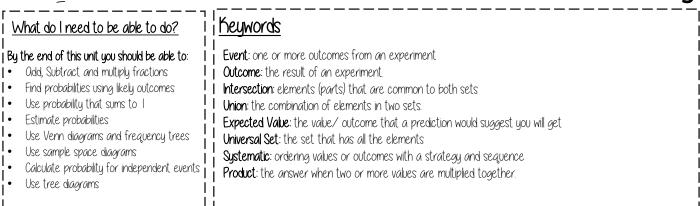
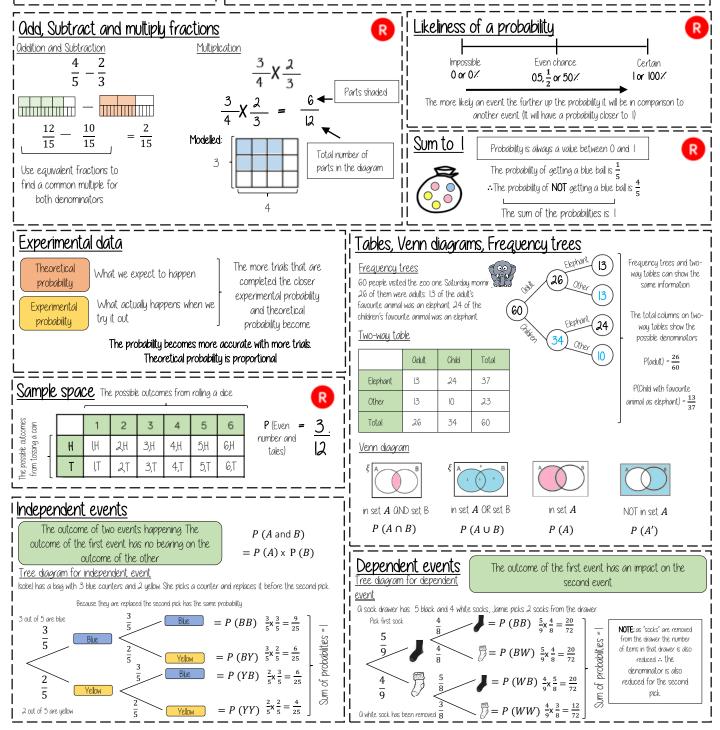
YEAR 10 - SUMMER TERM...

@whisto_maths



Probability



YEAR 10 - SUMMER TERM

Changing the subject

By the end of this unit you should be able to:	MathsWatch clip	Video tutorial
 Solve linear equations 	<u>135a</u>	
 Solve linear inequakities 	<u>139</u>	<u>Corbett</u>
• Form & solve equations & inequalities in context of shape	<u>137</u>	
• Change the subject of a simple formula	<u>136</u>	<u>Corbett</u>
 Change the subject of a complex formula 		
 Change the subject when the subject appears more than once (H) 	<u>190</u>	<u>Corbett</u>
 Solve equations by iteration (H) 	<u>180</u>	<u>Corbett</u>

$$y=\frac{x}{ab}+c$$

<u>Keywords</u>

Expand: multiply out terms to remove brackets

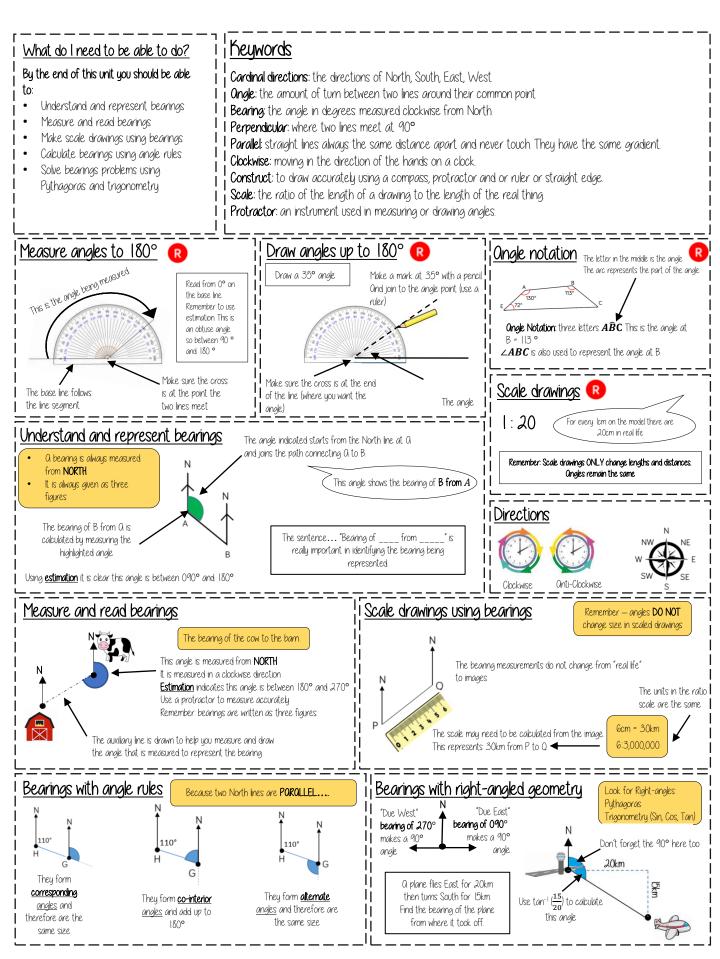
Coefficient: the number in front of a letter in an algebraic term, such as $5x^3$

Rearrange: change the subject of an equation by writing it in a different way

Iterate: keep repeating a process

Converge: tend towards a particular value

YEAR 10 - SUMMER TERM Ongles & bearings



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by the end of this unit you should be able to:	MathsWatch clip	Video tutorial	
 Plot & read from quadratic graphs 	98	Corbett	
• Plot & read from cubic graphs	<u> 6 </u>	<u>MathsGenie</u>	
Plot & read from reciprocal graphs	<u> 6 </u>	<u>MathsGenie</u>	IIII
 Recognise graph shapes 			
• Identify & interpret roots & intercepts of quadratics	<u> 160</u>		
• Understand & use exponential graphs (H)	194	<u>Corbett</u>	
• Find and use the equation of a circle centre (0,0) (H)	<u>197</u>	<u>Corbett</u>	
Construct & interpret conversion graphs		Corbett Corbett	
Construct & interpret conversion graphs		<u>Corbett</u> <u>Corbett</u>	<u> </u>
• Construct & interpret other real-life straight graphs		<u>Corbett</u>	i
Interpret distance/time graphs	<u> 43</u>	<u>Corbett</u>	
Construct distance/time graphs		<u>Corbett</u>	
• Construct & interpret speed/time graphs	<u>216a</u>	<u>MathsGenie</u>	
 Recognise & interpret graphs that illustrate direct & inverse proportion 		<u>Corbett</u>	
• Find approximate solutions to equations using graphs		<u>Corbett</u>	
• Estimate the area under a curve (H)	216a	Corbett	

<u>Keywords</u>

Quadratic: an expression in which the highest power is 2, such as $x^2 - 5x + 3$

Cubic: an expression in which the highest power is 3, such as $8 + x^3$

Estimate: read approximate values from a graph

Osymptote: a line that a curve approaches, but never quite touches

Gradient: the steepness (or slope) of a line. A negative gradient means the line slopes downhill

Substitute: put numbers in place of letters to find the value of an expression

Reciprocal: a graph with an equation of the form $\mathbf{y} = \frac{k}{r}$ where k is a number

Roots: the solutions when an equation equals zero (often the x-intercepts of a graph)

Exponential: a graph with an equation of the form $\mathbf{y} = k^x$ where k is a number

Parallel: straight lines that never meet (equal gradients)

Horizontal: a straight line which goes from side to side, parallel to the x-axis

Vertical: a straight line which goes up and down, parallel to the y-axis

Intercept: the point where a line crosses the axis of a graph

Constant: unchanging. It will be a straight line on a graph, for example, a constant speed on a distance-time graph will be a straight diagonal line

Convert: change between two different units of measurement, such as cm and inches

Direct proportion: two quantities which remain in the same ratio at all times

Inverse proportion: a relationship in which one quantity increases as the other decreases

Occeleration: the rate at which velocity changes

YEAR 10 - SUMMER TERM Graphs

