

**Students will study one unit every half term. The units and timings are as follows:**

**Autumn term – unit A and B**

**Spring term – unit C and D**

**Summer term – unit E and F**

**The APP (Assessing pupil progress) sheets have all the topics your child will be studying in that half term. Accompanying the topics are MathsWatch clips which will help them to clarify their learning. MathsWatch CD's are available to buy from school from the reprographics department.**

# Unit A

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT A TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

Objective		Objective	
<i>I can add and subtract integers.</i>	C1	<b>I can calculate the area of a parallelogram.</b>	
<i>I can add and subtract decimals e.g. <math>18.97 + 2.9 - 17.36 - 28.4 + 5.04</math></i>	to C4	<b>I can calculate the area of a trapezium.</b>	
<i>I can multiply two integers.</i>	C9 C14	<b>I can solve problems using area.</b>	
<i>I can multiply a decimal by an integer.</i>	C11	<b>I can calculate the area of compound shapes.</b>	
<b>I can multiply two decimals.</b>	C11	<b>I can work out the volume of a cube &amp; cuboid.</b>	
<b>I know what BIDMAS stands for &amp; can use it to work out the answer to a sum.</b>		<b>I can solve volume problems (cubes &amp; cuboids).</b>	
<i>I can add and subtract using algebra.</i>		<i>I can calculate the surface area of cubes, cuboids and shapes made up from these.</i>	D5
<b>I can multiply using algebra.</b>		<i>I can calculate the median &amp; range.</i>	
<b>I can divide using algebra.</b>		<b>I can put data into a stem-and-leaf diagram.</b>	
<i>I can calculate the area of a triangle.</i>		<b>I can calculate the median &amp; range from a stem-and-leaf diagram.</b>	
<i>I can calculate the area of a squares &amp; rectangles.</i>	S16	<b>I can draw a box-and-whisker diagram.</b>	

# Unit B

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT B TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

<i>I can order positive &amp; negative numbers.</i>	N15	<b>I can enlarge a shape.</b>	
<b>I can add and subtract positive &amp; negative numbers</b>		<b>I can enlarge a shape through a centre of enlargement.</b>	
<b>I can multiply &amp; divide positive &amp; negative numbers.</b>		<i>I can calculate the mean &amp; mode for a set of data.</i>	D5 D7
<b>I can write a number as a product of its prime factors.</b>		<b>I can calculate the mean for a frequency table.</b>	
<b>I can use a Venn Diagram to find the Highest Common Factor of two numbers.</b>		<b>I can find the modal class for a grouped frequency table.</b>	
<b>I can use a Venn Diagram to find the Lowest Common Multiple of two numbers.</b>		<b>I can draw a frequency diagram for a set of continuous data.</b>	
<b>I can work backwards to find the right number to put into a function machine.</b>		<i>I can draw &amp; read information from a bar chart.</i>	D1 D2
<b>I can solve 2 step equations.</b>		<i>I can draw &amp; read info from a multiple bar chart.</i>	
<b>I can reflect a shape.</b>	S3 S7	<i>I can draw &amp; read info from a compound bar chart.</i>	
<b>I can rotate a shape.</b>	S9	<i>I can draw &amp; read information from a bar-line graph.</i>	
<b>I can translate a shape.</b>	S8	On the unit test I achieved % = level	

# Unit C

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT C TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

<i>I can match equivalent fractions.</i>	N3	<b>I can recognise when 2 shapes are congruent.</b>	
<i>I can simplify fractions.</i>	N17	<b>I know the difference between an interior and an exterior angle.</b>	
<i>I can add &amp; subtract fractions with the same denominator.</i>		<i>I can recognise vertically opposite angles and know that they are _____</i>	
<b>I can add &amp; subtract fractions with different denominators.</b>		<b>I can recognise corresponding and alternate angles on a diagram.</b>	
<i>I can multiply fractions by an integer.</i>		<i>I can calculate a missing angle at a point.</i>	S15
<b>I can multiply two fractions.</b>		<i>I can calculate a missing angle in a triangle.</i>	S15
<b>I can divide an integer by a fraction.</b>		<b>I know angles in a quadrilateral sum to _____</b>	
<b>I can divide a fraction by a fraction.</b>		<b>I know that complementary angles sum to _____</b>	
<b>I can calculate a fraction of an amount.</b>		<b>I know that supplementary angles sum to _____</b>	
<b>I can expand a bracket</b> e.g. Expand $3(x + 5)$		<b>I can draw and read information from a pie chart.</b>	
<b>I can expand brackets and simplify</b> e.g. Expand $4(a + 2b) - 2(2a + b)$ <b>Simplify your answer.</b>		On the unit test I achieved    % = level  I was            happy            unhappy	

# Unit D

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT D TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any. The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

<i>I can multiply decimals by 10, 100 and 1000.</i>	N13	<i>I can change between mm, cm, m and km.</i>	S4
<i>I can divide decimals by 10, 100 and 1000.</i>	N13	<i>I can change between g and kg.</i>	S4
<b>I can round numbers to the nearest 10, 100 or 1000.</b>	N14	<i>I can change between ml, cl and l.</i>	S4
<i>I can round numbers to the nearest integer.</i>		<b>I know 1 litre = _____ cm<sup>3</sup>.</b>	
<b>I can round numbers to 1 or 2 decimal places.</b>	N14	<b>I know 1 millilitre = _____ cm<sup>3</sup>.</b>	
<i>I can find the next term in a sequence.</i>	N5	<b>I know 1 m<sup>3</sup> = _____ litres.</b>	
<i>I can write a rule in words, for a sequence.</i>	N5	<i>I know which metric units are used for length, which are area and which are volume.</i>	S4
<b>I can find the n<sup>th</sup> term of a sequence.</b>		<b>I can draw a scatter graph.</b>	
<b>I can use the n<sup>th</sup> term to work out a number in the sequence.</b>		<b>I know when a scatter graph shows positive or negative correlation.</b>	
<b>I can draw the graph of a sequence.</b>		<b>I can draw a line of best fit.</b>	
<b>I can use bearings.</b>		On the unit test I achieved % = level	

# Unit E

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT E TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

<i>I can pair equivalent ratios.</i>	N12	<b>I can draw and read information from distance- time graphs.</b>	
<i>I can simplify ratios.</i>	N12	<b>I can sketch and read information from displacement-time graphs.</b>	
<b>I can simplify ratios when there are two different units.</b>		<b>I can draw and use conversion graphs.</b>	
<b>I can share a ratio in a given ratio.</b>		<i>I can describe how likely an event is.</i>	D6
<b>I can solve word problems with ratios in.</b>	C18	<b>I understand the words; event, theory, sample, sample space, outcome, biased and fair.</b>	
<i>I can fill in an x-y table.</i>		<i>I know probability is always between _____ and _____</i>	D6
<i>I can draw a straight line graph.</i>		<i>I know probability can be written as a _____, _____ or _____.</i>	D6
<i>I know which equations will have a straight line graph.</i>		<i>I know probability is never written in _____ or given as a _____.</i>	D6
<b>I know which graphs will be parallel by looking at their equations.</b>		<b>I can work out the probability of an event happening or not happening.</b>	D6
<b>I know where a graph will cross the y axis, by looking at their equations.</b>		<b>I can list all the outcomes from 1 or 2 events.</b>	
<i>I can draw graphs like <math>y = 5</math> and <math>x = -3</math>.</i>		On the unit test I achieved    % = level	
<b>I can find the mid-point between two co-ordinates.</b>		I was                    happy                    unhappy	

# Unit F

## YEAR 8: ASSESSING PERSONAL PROGRESS

# APP Sheet

### UNIT F TEST:

Colour the column green if you can do it in class, orange if you can do some, red if you feel you cannot understand any.

The codes are for the **KS3 Maths Watch CD-ROM**.

You must write **Book of Power** notes for the topics which are typed in bold below.

<i>I can change between fractions and decimals.</i>		I can construct a triangle, when I know one side and 2 angles.	
<b>I can change between fractions and recurring decimals.</b>		<b>I understand the words; bisect, bisector, equidistant, construct and mid-point.</b>	
<i>I can change between fractions and percentages.</i>	N10	<b>I can construct a perpendicular bisector of a line segment.</b>	
<i>I can change between decimals and percentages.</i>		<b>I can bisect an angle.</b>	
<i>I can use BIDMAS.</i>		<b>I can construct a perpendicular from a point to a line segment.</b>	
<b>I can understand substitution.</b>		On the unit test I achieved % = level	
I can construct a triangle, when I know all the side lengths.		I have made good progress this year.	
I can construct a triangle, when I know 2 sides and an angle.		If I continue to work well I should get level _____ at the end of KS3.	

This means I should achieve grade \_\_\_\_\_ at GCSE.