

# Year 8,

(This is for pupils who have reached level 5 by the end of year 7)

## Autumn Term

Unit	Title	Topics	Number of lessons
1	All around sports	<ul style="list-style-type: none"><li>▪ Ratio and proportion</li><li>▪ Angles</li><li>▪ Circles</li></ul>	8/9
2	It all adds up	<ul style="list-style-type: none"><li>▪ Fractions</li><li>▪ Decimals</li><li>▪ Mental calculations</li></ul>	6
3	Safety in Numbers	<ul style="list-style-type: none"><li>▪ Prime factor decomposition</li><li>▪ Venn diagrams</li></ul>	3
4	Algebra	<ul style="list-style-type: none"><li>▪ Solving of simple Equations</li></ul>	2
Revision and Assessment	▪		2
Investigation	▪		3
5	Equations and lines	<ul style="list-style-type: none"><li>▪ Solving equations</li><li>▪ Trail and improvement</li><li>▪ Straight line graphs</li></ul>	9
6	Census at school	<ul style="list-style-type: none"><li>▪ Statistical enquiry</li></ul>	7
7	Friends	<ul style="list-style-type: none"><li>▪ Sequences</li><li>▪ Types of number</li></ul>	5
Revision and Assessment			2
Investigation		▪	3

## Spring Term

Unit	Title	Topics	Number of lessons
8	Mobile phones	<ul style="list-style-type: none"><li>▪ Graphs from real life</li><li>▪ Substitution</li><li>▪ Simultaneous equations</li></ul>	4
9	How do you get there?	<ul style="list-style-type: none"><li>▪ Transformations</li><li>▪ Ratio/similarity</li><li>▪ Vectors</li></ul>	6
10	Cracking the code	<ul style="list-style-type: none"><li>▪ Code breaking</li></ul>	3
11	Win, lose or draw	<ul style="list-style-type: none"><li>▪ Probability</li></ul>	6
Revision and Assessment		<ul style="list-style-type: none"><li>▪</li></ul>	2
Investigation		<ul style="list-style-type: none"><li>▪</li></ul>	3
12	We mean business	<ul style="list-style-type: none"><li>▪ Secondary data</li><li>▪ Time series</li></ul>	4
13	Unbalanced	<ul style="list-style-type: none"><li>▪ Linear inequalities</li></ul>	3
14	Freaky further fractions	<ul style="list-style-type: none"><li>▪ Algebraic fractions</li></ul>	4
15	Chocolate and more	<ul style="list-style-type: none"><li>▪ Proportionality</li><li>▪ Plans and elevations</li><li>▪ Area/Volume</li><li>▪ Pythagoras</li></ul>	6
Revision and Assessment		<ul style="list-style-type: none"><li>▪</li></ul>	2
Investigation		<ul style="list-style-type: none"><li>▪</li></ul>	3

## Summer Term

16	Factor it in	<ul style="list-style-type: none"><li>▪ Factorising expressions</li><li>▪ Factorising quadratics</li><li>▪ Plotting and sketching quadratics</li></ul>	5
17	Highway Link Design	<ul style="list-style-type: none"><li>▪ Bowland</li></ul>	6
18	Pythagoras	<ul style="list-style-type: none"><li>▪ Pythagoras' Theorem</li></ul>	6
Revision and Assessment		<ul style="list-style-type: none"><li>▪</li></ul>	2
Investigation		<ul style="list-style-type: none"><li>▪</li></ul>	3
19	Reflect on IT	<ul style="list-style-type: none"><li>▪ Use of ICT</li><li>▪ Transformations</li><li>▪ Constructions</li></ul>	3
20	Angles	<ul style="list-style-type: none"><li>▪</li></ul>	
		<ul style="list-style-type: none"><li>▪</li></ul>	
		<ul style="list-style-type: none"><li>▪</li></ul>	