



‘Building Resilience for Future Success’

Maths Group Planning

Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history’s most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.”

(Department for Education, Mathematics Programmes of Study: Key Stage 4 July 2014)

Autumn Term		
Week/Date	Topic/Resources	Learning opportunities link to DfE Mathematics POS KS4 & PSHE curriculum
1	Getting to know you lesson Initial session involving maths activities and tasks.	
2	Currencies General discussion around different currencies linking them to their countries (and the flag of the country). Activities around handling our currency.	
3	Knowledge and feelings about money General knowledge quiz about money moving on to a task where the YP have a variety of scenarios and have to decide how they would feel and what they would do.	KS3 L16, L17, L18 KS4 L18

4	Types of Payment Cards Initial task looking at the different banks and building societies we have. Then move on to look at the different types of payment cards available to use and when it appropriate to use each one. Discussion about credit and store cards and interest added.	KS3 L15 KS4 L17, L18
5	Budgeting Discussion about what budgeting is and why we need to do it. Moving on to a task where the YP have to design a budget that they can manage given a set of circumstances.	KS3 L15 KS4 L16, L17, L18
6	Wages and Deductions Discussion about how people might get paid differently depending on the job they do. Look at the minimum wages currently in the UK. And what deductions we might have to pay.	
7	Fraud Session highlighting the different types of frauds/scams we need to be aware of and what to do to keep ourselves safe.	KS3 L19 KS4 L19, L20
Half term		
8	BIDMAS Recap of the importance of using BIDMAS to get the correct answer. <u>Tasks</u> BIDMAS codes worksheets 1-4 (progressively get more challenging)	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>consolidate their numerical and mathematical capability from key stage 3 and extend their understanding of the number system</i>
9	Basic percentages Recap of non-calculator percentages that we would use in everyday life followed by a refresher of using a calculator for more complex calculations. <u>Tasks</u> The Sports Shop Puzzle, GCSE exam style questions	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>
10	Working with fractions Recap of calculating fractions of amounts without a calculator. <u>Tasks</u> Treasure hunt style activity, GCSE style questions	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>
11	Working with decimals Looking at the link between fractions and decimals. <u>Tasks</u> Decimal bingo activity	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>

12	Ratio Looking at the link between fractions and ratio and working on combining ratios <u>Task</u> Treasure hunt style activity, GCSE style questions	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>extend and formalise their knowledge of ratio and proportion</i> ○ <i>identify and work with fractions in ratio problems</i>
13	Indices Recapping the rules of indices, extending into negative and fractional indices if appropriate <u>Task</u> Cracking the codes task using indices	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>consolidate their numerical and mathematical capability from key stage 3 and extend their understanding of the number system to include powers, roots (and fractional indices)</i>
14	Christmaths Activities A selection of maths activities with a Christmas theme.	
Spring Term		
Week/Date	Topic/Resources	Learning Opportunities
1	Getting to know you lesson Initial session involving maths activities and tasks.	
2	Currencies General discussion around different currencies linking them to their countries (and the flag of the country). Activities around handling our currency.	
3	Knowledge and feelings about money General knowledge quiz about money moving on to a task where the YP have a variety of scenarios and have to decide how they would feel and what they would do.	KS3 L16, L17, L18 KS4 L18

4	<p>Types of Payment Cards</p> <p>Initial task looking at the different banks and building societies we have. Then move on to look at the different types of payment cards available to use and when it appropriate to use each one. Discussion about credit and store cards and interest added.</p>	<p>KS3 L15 KS4 L17, L18</p>
5	<p>Budgeting</p> <p>Discussion about what budgeting is and why we need to do it. Moving on to a task where the YP have to design a budget that they can manage given a set of circumstances.</p>	<p>KS3 L15 KS4 L16, L17, L18</p>
6	<p>Wages and Deductions</p> <p>Discussion about how people might get paid differently depending on the job they do. Look at the minimum wages currently in the UK. And what deductions we might have to pay.</p>	
7	<p>Fraud</p> <p>Session highlighting the different types of frauds/scams we need to be aware of and what to do to keep ourselves safe.</p>	<p>KS3 L19 KS4 L19, L20</p>
Half Term		
8	<p>BIDMAS</p> <p>Recap of the importance of using BIDMAS to get the correct answer.</p> <p><u>Tasks</u></p> <p>BIDMAS codes worksheets 1-4 (progressively get more challenging)</p>	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>consolidate their numerical and mathematical capability from key stage 3 and extend their understanding of the number system</i>
9	<p>Basic percentages</p> <p>Recap of non-calculator percentages that we would use in everyday life followed by a refresher of using a calculator for more complex calculations.</p> <p><u>Tasks</u></p> <p>The Sports Shop Puzzle, GCSE exam style questions</p>	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>
10	<p>Working with fractions</p> <p>Recap of calculating fractions of amounts without a calculator.</p>	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>

	<u>Tasks</u> Treasure hunt style activity, GCSE style questions	
11	Working with decimals Looking at the link between fractions and decimals. <u>Tasks</u> Decimal bingo activity	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i>
12	Ratio Looking at the link between fractions and ratio and working on combining ratios <u>Task</u> Treasure hunt style activity, GCSE style questions	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>extend and formalise their knowledge of ratio and proportion</i> ○ <i>identify and work with fractions in ratio problems</i>
13	Easter Math Challenge Worksheet containing maths problems relating to Easter.	<ul style="list-style-type: none"> ○ <i>use mathematical language and properties precisely</i> ○ <i>consolidate their numerical and mathematical capability from key stage 3 and extend their understanding of the number system to include powers, roots (and fractional indices)</i>
Summer Term		
Week/Date	Topic/Resources	Learning Opportunities
1	Personalised work as young people prepare for summer exams	
2	Personalised work as young people prepare for summer exams	

3	Personalised work as young people prepare for summer exams	
4	Personalised work as young people prepare for summer exams	
5	Personalised work as young people prepare for summer exams	
6	Personalised work as young people prepare for summer exams	
Half Term		
7	Personalised work as young people prepare for summer exams	
8	Personalised work as young people prepare for summer exams	
9	<p>Currencies General discussion around different currencies linking them to their countries (and the flag of the country). Activities around handling our currency.</p>	

10	<p>Knowledge and feelings about money</p> <p>General knowledge quiz about money moving on to a task where the YP have a variety of scenarios and have to decide how they would feel and what they would do.</p>	<p>KS3 L16, L17, L18 KS4 L18</p>
11	<p>Types of Payment Cards</p> <p>Initial task looking at the different banks and building societies we have. Then move on to look at the different types of payment cards available to use and when it appropriate to use each one. Discussion about credit and store cards and interest added.</p>	<p>KS3 L15 KS4 L17, L18</p>
12	<p>Budgeting</p> <p>Discussion about what budgeting is and why we need to do it. Moving on to a task where the YP have to design a budget that they can manage given a set of circumstances.</p>	<p>KS3 L15 KS4 L16, L17, L18</p>
13	<p>Wages and Deductions</p> <p>Discussion about how people might get paid differently depending on the job they do. Look at the minimum wages currently in the UK. And what deductions we might have to pay.</p>	