Planning and Assessment

'Working At' Pack 2



Session 1	 Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Round decimals with two decimal places to the nearest whole number and to one decimal place. Read, write, order and compare numbers with up to three decimal places.
Session 2	 Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). Add and subtract numbers mentally with increasingly large numbers. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Session 3	 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
Session 4	 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
Session 5	 Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane and reflect them in the axes.



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Objectives:		Success Criteria:			
Number and Place Value		Can you read and write numbers?			
Read, write, order and compare numbers up to 10,000,000 and data mines the value of		 Can you order and compare numbers? 			
each digit.		Can you round numbers to different			
Round any whole	number to a required degree	powers of 10?			
of accuracy.					
• Round decimals w	ith two decimal places to the				
nearest whole nur	mber and to one decimal place.				
• Read, write, order	and compare numbers with up				
to three decimal p	olaces.				
Key Vocabuları]:	Preparation:			
Digit, place value, o	order, compare	Activity Booklet 2 Superhere Place Value Chart			
		Two dice			
	Defer to Activity 1.1 in Activity Peoklet 2				
	Refer to Activity 1.1 in Activity Booklet 2.				
	Practise saying numbers of varying place value and written in different representations.				
Talk Maths	Encourage the children to identify the values of the digits in the different numbers and to order and compare the numbers.				
	Extend by challenging the children to create their numbers and then challenge a friend to give the value of one of the digits.				
	Can the children read, write, order and compare numbers?				
	Refer to Activity 1.2 in Activit	ty Booklet 2.			
Key Skills	Play the fun, superhero roundir nearest whole number. You wi Chart to support as required.	ng game to practise rounding decimal numbers to the ill need two dice. Use the Superhero Place Value			
	Can the children round decimals to the nearest whole number?				
Using and	Children complete the superhero activities shown in Activity 1.3 in Activity Booklet 2 to apply and practise the skills from the previous two activities.				
Applying	Can the children round numbers to different powers of 10?				



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Assess and Review	Refer to the incorrectly completed SATs question shown in Activity 1.4 in Activity Booklet 2 .
	Discuss the mistakes that have been made and advice they would give to the child who completed the question.
	Encourage the children to notice that the child answering the question has got the place value of the digits mixed up. The correct answer is seventy-three thousand and twenty-nine.
	Complete the self-assessment activity based on the success criteria.





 Objectives: Addition and Subtraction Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). 		 Success Criteria: Can you solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why? Can you add and subtract numbers mentally with increasingly large numbers? 			
Add and subtract increasingly large	numbers mentally with numbers.	 Can you add and subtract whole numbers with more than 4 digits, including using formal written methods? 			
• Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.					
Key Vocabulary: Total, difference, digit, place value.		Preparation: Activity Booklet 2 Superhero Challenge Cards			
	Refer to Activity 2.1 in Activity Booklet 2.				
Talk Maths	Practise adding and subtracting numbers using a range of mental and written methods. Encourage the children to talk about the methods they are using. Extend by challenging the children to see if they can add together three or more numbers of different place values.				
	Can the children add and subtract numbers deciding which methods to use and why?				
	Refer to Activity 2.2 in	Activity Booklet 2.			
Key Skills	Play the fun, superhero board game to practise answering addition and subtraction word problems. You will need the Superhero Challenge Cards .				
	Can the children solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why?				
Usina	Children complete the w apply and practise the s	ord problems shown in Activity 2.3 in Activity Booklet 2 to skills from the previous two activities.			
and Applying	Can the children solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why?				



Assess and Review	Refer to the incorrectly completed SATs question shown in Activity 2.4 in Activity Booklet 2 .
	Discuss the mistakes that have been made and advice they would give to the child who completed the question.
	Encourage the children to notice that the child answering the question hasn't made each calculation equal; they have given numbers which give the answers 23 and 17. Encourage the children to give pairs of numbers that do give equal answers e.g. $4 + 1 = 5$ and $11 - 6 = 5$.
	Complete the self-assessment activity based on the success criteria.



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Objectives: Fractions • Add and subtract fractions with		 Success Criteria: Can you add fractions with different denominators and mixed numbers? 				
different denominators and mixed numbers, using the concept of		 Can you subtract fractions with different denominators and mixed numbers? 				
equivalent fraction	ns.	 Can you find common denominators to help with adding and subtracting fractions? 				
Key Vocabulary: Numerator, denominator, compare, order,		Preparation: Activity Booklet 2				
multiple, equivalent		Fraction Dominoes				
		Fraction Wall				
	Refer to Activity 3.1	in Activity Booklet 2.				
Talk Maths	Practise finding the total of two fractions that have different denominators. Extend by challenging the children to identify if any of their answers are improper fractions or mixed numbers and converting them.					
	Can the children add fractions with different denominators and mixed numbers?					
	Refer to Activity 3.2 in Activity Booklet 2.					
Key Skills	Play the fun, superher whole. You will need as required	ro dominoes game to practise making fractions that total one the Fractions Dominoes . Use the Fraction Wall to support				
Using and	Children complete the reasoning problems shown in Activity 3.3 in Activity Booklet 2 to apply and practise the skills from the previous two activities. Use the Fraction Wall to support as required.					
	Can the children add and subtract fractions with different denominators and mixed numbers?					
	Refer to the incorrectly completed SATs question shown in Activity 3.4 in Activity Booklet 2 .					
Assess	Discuss the mistakes that have been made and advice they would give to the child who completed the question.					
and Review	Encourage the children to notice that the child answering the question hasn't correctly converted the mixed number to identify that the calculation to solve is $\frac{14}{12} - \frac{?}{12} = \frac{9}{12}$.					
	complete the self-as	sessment activity based on the success criteria.				



Objectives:		Success Criteria:			
Measurement		 Can you accurately read scales of different increments? 			
 Solve problems involving the calculation 		 Can you convert between different units of measure? 			
and conversion of	units of measure, using	 Can you compare order and describe measurements? 			
places where appr	opriate.				
• Use read write an	Nd convert between	Can you solve problems involving converting measurements?			
standard units, co	nverting measurements				
of length, mass, vo	olume and time from a				
smaller unit of me	asure to a larger unit,				
and vice versa, us	ing decimal notation to				
	ai places.				
Key Vocabulary	j:	Preparation:			
Length, mass, capa	city, temperature,	Activity Booklet 2			
compare, order, greater than, less than.		Superhero Measurement Top Cards			
	Refer to Activity 4.1 in Activity Booklet 2.				
	Practise reading partially labelled scales that have varying increments.				
Talk Maths	Encourage the children to talk about how they are identifying the increments t scales are increasing by, linking to work on division.				
	Extend by challenging the children to identify different positions on the scales.				
	Can the children accurately read scales of different increments?				
	Refer to Activity 4.2 in	Activitu Booklet 2			
Kou Skille	need the Superhero Measurement Top Cards.				
Rey Skills	Can the children convert between different units of measure?				
	Can the children convert between unterent units of medsure?				
	Can the children compare measurements?				
	Children complete the re	easoning activities shown in Activity 4.3 in Activity Booklet 2			
Using and	to apply and practise the skills from the previous two activities.				
Applying	Can the children solve problems involving converting measurements?				



Assess and Review	Refer to the incorrectly completed SATs questions shown in Activity 4.4 in Activity Booklet 2.
	Discuss the mistakes that have been made and advice they would give to the child who completed the question.
	Encourage the children to notice that the child answering the question hasn't converted 2.6km into metres correctly. The correct answer should be Callum because 2,600m > 2,080.
	Complete the self-assessment activity based on the success criteria.





 Objectives: Position and Direction Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane and reflect them in the avec. 		 Success Criteria: Can you identify, describe and represent the position of a shape following a reflection or translation? Can you describe positions on a four-quadrant coordinate grid? 			
Key Vocabulary: Coordinate, quadrant, axis, translation, reflection.		Preparation: Activity Booklet 2 Reflection Matching Cards			
	Refer to Activity 5.1 in A	ctivity Booklet 2.			
	Practise reading coordinate the correct order of x-axis	es in all four quadrants. Ensure children read coordinates in then y-axis.			
Talk Maths	Challenge the children to choose one of the coordinate objects and to describe a translation, giving its new coordinates.				
	Can the children describe positions on a four-quadrant coordinate grid?				
	Refer to Activity 5.2 in Activity Booklet 2.				
Keu Skills	Play the fun pairs game to practise describing and representing the position of a shape following a reflection. You will need the Reflection Matching Cards .				
Reg okids	Can the children identify, describe and represent the position of a shape following a reflection?				
	Children complete the reasoning activities shown in Activity 5.3 in Activ 2 to apply and practise the skills from the previous two activities.				
Using and	Can the children describe positions on a four-quadrant coordinate grid?				
Apprging	Can the children identify, describe and represent the position of a shape following a translation?				
	Refer to the incorrectly completed SATs question shown in Activity 5.4 in Activity Booklet 2.				
Assess and Review	Discuss the mistakes that have been made and advice they would give to the child who completed the question.				
	Encourage the children to the shape instead of reflect	to notice that the child answering the question has translated eflecting it.			
	Complete the self-assessment activity based on the success criteria.				



	Children's Names					
National Curriculum Objective						
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.						
Round any whole number to a required degree of accuracy.						
Round decimals with two decimal places to the nearest whole number and to one decimal place.						
Read, write, order and compare numbers with up to three decimal places.						
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).						
Add and subtract numbers mentally with increasingly large numbers.						
Solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why.						
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.						
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.						



	Children's Names				
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.					
Describe positions on the full coordinate grid (all four quadrants).					
Draw and translate simple shapes on the coordinate plane and reflect them in the axes.					



