Baljaffray Primary School

Making Maths Memorable (M³)

Primary 6

Context:



Block 1

Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Estimation and Rounding	*			
 Estimate the answer to a problem Know that +/- and x / ÷ are inverse operations 	**			

Awareness of Number –Counting, Quantities& Number Structure Counting	*			
Read numbers beyond 10 000 Write numbers beyond 10 000	**			

Awareness of Number –Counting, Quantities& Number Structure Numerals	*			
 Read and write numbers beyond 10 000 Order and compare numbers beyond 	**			
10 000 • Describe and extend number sequences	***			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Awareness of Number –Counting, Quantities& Number Structure Quantities	*			
Understand and provide examples of the numbers before and after a given number	**			

Quantities& Number Structure Place Value	*			
 Make 5 digit numbers recording in numbers and words Represent 4 digit numbers using concrete materials 	**			

Addition and Subtraction	*			
 Add and subtract 4 digit numbers and beyond (regrouping in the 1000s, 100s, 10s and 1s, etc.) 	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Multiplication and Division Identify common factors of 2 numbers Know prime numbers, prime factors and composite numbers (non-prime)	* ** ***			
Fractions, Decimals and Percentages Identify equivalent fractions (including tenths and hundredths) Compare and order fractions (whose denominators are multiples of the same number)	* ** **			
Solve money problems using 4 operations	** **			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Time Tell the time to the minute in both 12 and 24 hour clocks	** ***			
Measurement Length, Mass, Perimeter, Area, Volume Measure & estimate the distance using km Choose appropriate unit of measure when estimating weight Know perimeter is the distance around the outside of a shape Calculate the area of squares and rectangles using the formula A = I x b Know that 1ml = cm³	* ** **			
Patterns and Relationships Use well known number patterns such as square, cubed and triangular numbers	* **			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
 Expressions and Equations Express missing number problems algebraically x-30 = 40 and 4B = 20 	**			
Impact on the World Research historical number systems and how they have changed over time	*			
 2D Shape and 3D Objects Extend the range of 2D shapes. Extend knowledge of 2D shapes. Continue to extend range of shape and properties 	* * * * * * * * * * * * * * * * * * *			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Angles and Symmetry • Identify acute, obtuse, straight and	*			
reflex angles in the wider world	**			

Transformation	*			
Interpret a coordinate system to locate and plot a point on a grid	**			

Data Handling and Analysis Interpret information presented to show awareness of significance of	*			
show awareness of significance of the data	**			

Primary 6



Differentiated Activities	Resources	Assessment and Observation	Date Completed
→			
**			

	*	*	Differentiated Activities Resources Observation

Baljaffray Primary School

Making Maths Memorable (M³)

Primary 6

Context:



Block 2

Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Estimation and Rounding	*			
 Estimate and check solutions to a problem using the inverse operation Solve problems using estimation and check using the inverse Justify answers 	**			

Awareness of Number –Counting, Quantities& Number Structure Counting	*			
 Count in tens of thousands, thousands, hundreds, tens and units Order and compare numbers beyond 	**			
10 000 • Sequence numbers 0-10 000 forwards and backwards	***			
Awareness of Number –Counting, Quantities& Number Structure Numerals	*			
Read and write decimal fractions up to 2 decimal places	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Awareness of Number –Counting, Quantities& Number Structure Quantities	*			
Use concrete resources to represent different numbers	**			

Quantities& Number Structure Place Value	*			
 To represent 6 digit numbers (beyond 100 000) (concrete) To recognise the place value of each digit in a 6-digit number 	**			
Compare and order numbers to at least 100 000	***			
Addition and Subtraction	*			
 Use rounding to check answers to calculations Add and subtract decimals up to 2 decimal places 	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Multiplication and Division	*			
 Solve division problems with decimals using place value counters Multiply numbers up to 4digits by a 1 digit number 	**			

Fractions, Decimals and Percentages	<u> </u>			
Calculate fractions of quantities	*			
	**			

Money	*			
Solve money problems using 4				
operations Compare costs from different retailers to determine affordability	**			

Baljaffray Primary School	Making Maths Memorable (M³)	Primary 6	Context:	MALJAFRAY
Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Time	*			
 Coverts fractions of an hour to minutes, e.g. ³/₄ hour 	**			

Measurement	<u> </u>			
Length, Mass, Perimeter, Area, Volume				
 Know that 1km = 1000m Measure accurately using ¼ kg, ½ kg and g 	**	_		
 Measure accurately the perimeter of regular shapes using cm 				
Calculate the area of squares and rectangles using A = I x b	***			

• Covert cm3 to ml to l

Patterns and Relationships

Use well known number patterns such as square, cubed and triangular numbers



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Primary 6



Differentiated Activities	Resources	Assessment and Observation	Date Completed
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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Angles and Symmetry	*			
 Name 8 compass points and identify angles between them using 3 figure bearings Measure and draw 3 figure compass bearings using a protractor 	**			

Transformation	*			
Interpret a coordinate system to locate and plot a point on a grid				
Total and providing and	**			

Data Handling and Analysis	*			
Display data in a variety of more complex ways				
	**			

Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Ideas of Chance and Uncertainty	*			
Predict and explain outcomes using appropriate vocabulary; 50:50 equal				
chance	**			

Baljaffray Primary School

Making Maths Memorable (M³)

Primary 6

Context:



Block 3

Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Estimation and Rounding	*			
Round any number to 1000Round any number to 10 000	**			

Awareness of Number –Counting, Quantities& Number Structure Counting	*			
 Understand and count in tenths Understand and count in hundredths Convert between tenths and 	**			
hundredths	***			
Awareness of Number –Counting, Quantities& Number Structure Numerals	*			
Order decimal fractions up to 2 decimal place	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Awareness of Number –Counting, Quantities& Number Structure Quantities	*			
Use pictorial representations to show different numbers	**			

Quantities& Number Structure Place Value	*			
 Recognise and describe linear number sequences find the rule for a number sequence 	**			

Addition and Subtraction	*			
Find the missing value in addition and subtraction calculations	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Multiplication and Division	*			
 Divide numbers up to 4 digits by a one-digit number (with remainders) Multiply whole numbers up to 4 digits by a 2-digit number understand and use the distributive law to simplify problems 	**			
$3 \times (2+4) = 3 \times 2 + 3 \times 4$ or $3 \times 204 = 3 \times 200 + 3 \times 4$	* * *			
Fractions, Decimals and Percentages Read and write decimal numbers as fractions	*			

Money Buy items within a budget	*			
	**			

Baljaffray Primary School	Making Maths Memorable (M³)	Primary 6	Context:	MALJAFERA
Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Use and create timetables set out in both 12 and 24 hour clock times	**			
Measurement Length, Mass, Perimeter, Area, Volume Convert between m and km writing in decimal form to one decimal place Read a variety of scales accurately Measure accurately the perimeter of irregular shapes using cm Measure larger areas using m ² Calculate volume of cubes and cuboids using V = I x b x h	* **			

Patterns and Relationships

• Explain a rule and extend a sequence



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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Expressions and Equations	*			
 Express missing number problems algebraically x-30 = 40 and 4B = 20 To use a simple formula to generate, express and describe a linear number 	**			
sequence	***			
Impact on the World	*			
Research historical number systems and how they have changed over time				
	XX			

2D Shape and 3D Objects	*			
Use and create nets for 3D shapes				
	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Angles and Symmetry	*			
 Name angles and measure and draw to a 2-degree accuracy Draw simple triangles given angles and length 	**			

Transformation	*			
Interpret a coordinate system to locate and plot a point on a grid	**			

Data Handling and Analysis	*			
Display data in a variety of more complex ways	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Ideas of Chance and Uncertainty	*			
 Predict and explain outcomes using appropriate vocabulary; 50:50 equal chance Conduct experiments involving chance and uncertainty, e.g. tossing 	**			
a coin, rolling a die	***			

Baljaffray Primary School

Making Maths Memorable (M³)

Primary 6

Context:



Block 4

Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Estimation and Rounding	*			
 Round any number to 100 000 Round any number to the nearest 1000, 10 000, 100 000 	**			

Awareness of Number –Counting, Quantities& Number Structure Counting	*			
Count beyond zero forwards and backwards on a number line	**			

Awareness of Number –Counting, Quantities& Number Structure Numerals	*			
Position decimal fractions on a number line	**			

Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Awareness of Number –Counting, Quantities& Number Structure Quantities	*			
Match numerals to pictorial representations or concrete materials	**			

Quantities& Number Structure Place Value	*			
Represent numbers to at least 2 decimal places using tenths and hundredths	**			

Addition and Subtraction	*			
 Solve 2 step word problems for addition and subtraction Solve multi step word problems for addition and subtraction 	**			

Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Multiplication and Division	*			
Recognise and use squared and cubed numbers				
Divide whole numbers by 10, 100 and 1000	**			

Fractions, Decimals and Percentages	*			
Add and subtract decimals				
	**			

Money Buy items within a budget	*			
Introduce different ways of paying for items/services; bank cards, credit cards	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Time	*			
Calculate time intervals in both 12 and 24 hour clocks	**			

Measurement Length, Mass, Perimeter, Area, Volume Measure/estimate length, width and height using mm	*			
Read a variety of scales accurately Calculate accurately the perimeter of irregular shapes using cm	**			
 Convert between cm² and m² Calculate volume of cubes and cuboids using V = I x b x h 	***			
Patterns and Relationships Apply knowledge to generate a number	*			
sequence	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Expressions and Equations	*			
Use a simple formula to generate, express and describe a linear number sequence	**			

Impact on the World	*			
Research historical number systems				
and how they have changed over time	**			

2D Shape and 3D Objects	*			
Extend the range of 3D shapes				
	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Angles and Symmetry	*			
 Identify lines of symmetry of irregular shapes Identify and draw up to 4 lines of symmetry 	**			
Complete and create symmetrical shapes / patterns with vertical, horizontal and diagonal lines of symmetry	***			
Transformation	*			
Interpret a coordinate system to locate and plot a point on a grid	**			

Data Handling and Analysis	*			
Select appropriate questions for a survey to gather information required	**			

Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Ideas of Chance and Uncertainty	*			
Conduct experiments involving chance and uncertainty, e.g. tossing				
a coin, rolling a die	**			

Baljaffray Primary School

Making Maths Memorable (M³)

Primary 6

Context:



Block 5

Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Estimation and Rounding	*			
Round decimals to the nearest whole number Round decimals to the nearest tenth	**			

Awareness of Number –Counting, Quantities& Number Structure Counting	*			
Solve problems involving negative numbers	**			

Awareness of Number –Counting, Quantities& Number Structure Numerals	*			
Describe and extend number sequences involving decimal fractions with 2 decimal places	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Awareness of Number –Counting, Quantities& Number Structure Quantities	*			
Estimate numbers using different representations	**			

Quantities& Number Structure Place Value	*			
Understand thousandths and represent the value (concrete)	**			

Addition and Subtraction	*			
 Solve multi step word problems for addition and subtraction Use a variety of strategies to solve addition and subtraction problems 	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Multiplication and Division	*			
 Divide by powers of 10 Divide by powers of 1000 Solve multi step worded problems 	**			

Fractions, Decimals and Percentages	→			
Understand and use the term percentage %	*			
Convert fractions to %	**			

Money	*			
Introduce different ways of paying for				
items/services; bank cards, credit cards	**			

Baljaffray Primary School	Making Maths Memorable (M³)	Primary 6	Context:	ALJAFFRAN
Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Time • Introduce the links between time, speed and distance	**			
Measurement Length, Mass, Perimeter, Area, Volume Convert between mm/cm/m Know that there are 2.2 lbs in 1kg and 14 lbs in a stone Calculate accurately the perimeter of irregular shapes using cm	**			

• Convert between cm² and m²

Patterns and Relationships

using V = I x b x h

sequence

• Calculate volume of cubes and cuboids

Apply knowledge to generate a number



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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Expressions and Equations	*			
Use a simple formula to generate, express and describe a linear number sequence	**			
	***	_		
Impact on the World	*			
Research historical number systems and how they have changed over time	**			

2D Shape and 3D Objects	*			
Extend knowledge of properties of 3D shapes	**			

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Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Angles and Symmetry	*			
Apply scale to interpret maps, plans and diagrams	**			

Transformation	*			
Interpret a coordinate system to locate and plot a point on a grid	**			

Data Handling and Analysis	*			
Know how methods of collecting information may affect the data collected	**			

Primary 6



Area of Numeracy and Maths	Differentiated Activities	Resources	Assessment and Observation	Date Completed
Ideas of Chance and Uncertainty	→			
Conduct experiments involving chance and uncertainty, e.g. tossing				
a coin, rolling a die	**			
