Maths Assessment – Year 3

Name: .....

Name:		**Band 3 Maths Assessment**				
Autumn Term (Beginning)		**Spring Term (Working Within)**		**Summer Term (Secure)**		**Greater Depth**
B	**B+**	**W**	**W+**	**S**	**S+**	(Ongoing Assessment)
Number and Place Value • **3NPV-1: Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other 3 digit multiples of 10.** • **3NPV-2: To recognise the place value of each digit in a three-digit number (hundreds, tens, units), and compose and decompose three-digit numbers using standard and non-standard partitioning.** • **3NPV-3: reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10.** • **3-NPV-4: Divide 100 into 2,4,5 and 10 equal parts, and read scales / number lines marked in multiples of 100 with 2,4,5 and 10 equal parts.** • Count in multiples of 4, 8, 50 and 100 • Find 10 and/or 100 more or less than a given number • Compare and order numbers up to 1000 • Recognise the place value of each digit in a 3 digit number • Identify, represent and estimate numbers using different representations • Read and write numbers up to 1000 in numerals and words **Addition and Subtraction** • **3NF-1: Secure fluency in addition and subtraction facts that bridge 10, through continued practice.** • Mentally add and subtract a 1 digit number to a 3 digit number • Mentally add and subtract a multiple of 10 to a 3 digit number • Mentally + and - a multiple of 100 to a 3 digit number • **3AS-2: Add and subtract up to three-digit numbers using columnar methods.** • **3NF-3: Apply place value knowledge to known additive and multiplication number facts (scaling facts by 10).** • **3AS-1: Calculate complements to 100** • **3AS–3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction** • Use inverse to estimate and check answers to calculations • Solve missing number problems involving + and - • Applies knowledge of addition and subtraction facts fluently **Measurement** • Measure, compare, add and subtract mass in kg/g • Measure, compare, add and subtract capacity in l/ml • Calculate simple equivalents of mixed units (e.g. 5m = 500cm) • Add and subtract amounts of money to give change.		**Number and Place Value** • Continues to build on and apply taught concepts from Autumn term **Addition and Subtraction** • Continues to build on and apply taught concepts from Autumn term **Properties of Shape** • **3G-1: Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.** • **3G-2: Draw polygons by joining marked points, and identify parallel and perpendicular sides.Draw 2D shapes based on their properties** • Identify if a shape is symmetrical • Recognise 3D shapes in different orientations and describe them • Make 3D shapes using modelling materials • Identify obtuse and acute angles • Recognise that 2 right angles make a half turn • Recognise that 3 right angles make a 3 quarter turn • Recognise that 4 right angles make a full turn **Multiplication and Division** • **3NF-2: Recall multiplication facts, and corresponding division facts, in the 10.5.2.4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number.** • Write and calculate multiplication and division problems • Use partitioning (grid method) to multiply 2 digit numbers by a 1 digit number • Solve missing number problems involving addition • Solve scaling problems (e.g. a given number of quantity or measure is twice as long or 5 x as high) • Use commutativity and inverse to derive related fact families • **3NF-3: Apply place value knowledge to known additive and multiplication number facts (scaling facts by 10).** • **3MD-1: Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.** **Measurement** • Measure the perimeter of simple 2D shapes • Continues to build on and apply taught concepts from Autumn term • Measure, compare, add and subtract length in m/cm/mm • Calculate simple equivalents of mixed units (e.g. 5m = 500cm)		**Number and Place Value** • Read roman numerals to 12 • Continues to build on and apply taught concepts from Spring term **Fractions and Decimals** • **3F-1: Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.** • **3F-2: Find unit fractions of quantities using known division facts (multiplication tables fluency).** • **3F-3: Reason about the location of any fraction within 1 in the linear number system.** • **3F-4: To add and subtract fractions with the same denominator within one whole** • Count up and down in tenths • Recognise that tenths arise from dividing an object or quantity into 10 equal parts • Recognise unit and non unit fractions • Recognise and use fractions as numbers • Recognise and represent fractions equivalent fractions with small denominators • Compare and order unit fractions • Compare and order non unit fractions with the same denominator • Represent fractions on a number line • Solve problems involving simple fractions **Measurement** • Tell the time from an analogue clock to the nearest minute • Tell the time on 12 hour and 24 hour digit clocks • Use and understand vocabulary of o'clock, am/pm, morning, afternoon, noon and midnight • Record and compare time in seconds • Know the number of seconds in a minute • Know the number of days in each month, year and leap year • Compare durations of events • Continues to build on and apply taught concepts from Spring term **Statistics** • Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step problems using information presented in bar charts and pictograms		**General** • Make connections between different areas of maths when problem solving • Discuss the efficiency of different methods and approaches • Use a variety of concrete and visual representations to explain arithmetic and reasoning problems • Solve number and practical problems that involve increasingly large numbers **Number and Place Value** • Use a variety of concrete and visual representations to explain the place value of 3 digit numbers • Use rounding as part of problem solving • Generalise using knowledge of 4s, 8s, 50s and 100s beyond (e.g.I know that 16 is a multiple of 8 therefore is must also be a multiple of 4) **Properties of Shape** • Explain the differences between geometric shapes based on their properties • Explain strategies for comparing and ordering angles using correct mathematical language. **Multiplication and Division** • Reason methods when using distributive law, explaining how this makes mental calculation easier • Applies known facts to wider multiplication problems • Prove known multiplication facts using visual representations **Fractions and Decimals** • Links fractions to division • Recognise equivalent fractions to quickly identify solutions to problems **Measurement** • Explain relationships between different units of measure and the calculations needed to convert between them • Explain the importance of using the same unit of measure **Statistics** • Understand and use simple scales with increasing accuracy

Bold = ready-to-progress criteria