Year 5 Maths Map

Spring Term - 2nd Half		What can we do at home?
wb: 26.03.18	Measure: • Converting across **units of measure** ○ mm → cm → m etc • **Time** *****Most children manage to read a digital clock because this what they normally see at home: wristwatches, microwaves, computer, TV etc - your child needs to be able to tell the time using an analogue clock (with hands) too. • Finding the **Area & Perimeter** of simple and compound rectilinear shapes • **Volume** - the amount of 3D space an object occupies or takes up • **Capacity** - the total amount of fluid that can be contained in a container ***** The formula to find volume is V = L x H x W (Volume = Length x Height x Width)	Explore weights, mass & measure with bathroom and kitchen scales Cooking - following recipes Adding the weights of objects in the cupboard Looking at distances between places Ask your child to tell you the time from BOTH analogue & digital clocks Ask questions such as: What were you doing 45minutes ago? What time will it be when your programme ends? Explore bus/train timetables Challenge your child to design a new bungalow - don't forget the furniture Work out how big the rooms in the house are and how much carpet they need Work out the perimeter and surface area of household objects such as the TV screen Design a garden with different areas Work out the capacity of a bucket and your bathtub Ask questions such as: I have 2 litres of water. I need to divide it into 5 smaller jugs equally. How much water in ml will be in each of the five small jugs? Challenge them to find the volume of household/kitchen objects using *V = L x H x W
wb: 05.03.18	Fractions • Arrange in order of size • Find equivalent fractions • Find common multiples of denominators • Simplifying fractions	Challenge your child to calculate family ages down to the 12th, e.g. My oldest was born on March 2, 2004 making her 11 and 7/12 on October 2nd. My youngest just turned 8 and 4/12 (which reduces to 1/3) on September 28th. Challenge your child against the clock: Call out a fraction - how quickly can they: simplify fractions? name equivalent fractions? Call out a number - how quickly can they: list as many multiples as possible? find all of the factor pairs? find the lowest common multiple for 2 numbers?
wb: 12.03.18	Fractions • Convert *mixed number & **improper fractions • Add, Subtract, Multiply fractions *****A mixed number fraction is any number that has both a whole number and a fraction together - e.g. 4 ½ or 16 ¾ ******An improper fraction is a fraction that a numerator (top number) that is larger than the denominator (bottom number)	Challenge your child against the clock: Call out a *****mixed number fraction - how quickly can they convert it to an improper fraction? Call out an ******improper fraction - how quickly can they convert it to a mixed number fraction? Challenge your child to add mixed number and improper fractions (they will need to convert so that they are the same type of fraction first)

wb: 19.03.18	Calculating problem solving with 4 ops • Add & Subtract numbers of 4 digits or more using column method • Round to the nearest whole number, tenth (1dp) or hundredth (2dp) • Multiply 4 digit numbers by one- or two-digit number using a formal written method • Divide numbers up to 4 digits by a one-digit number using bus stop method	Shopping trips - Challenge your child to: add the total prices as they go in the trolley - how close to the actual total are they? round prices and work out the closest estimated title add faster than the till can pretend the same shopping is for more than one family - multiply prices etc
wb: 26.03.18	Geometry: • Position and direction • Reflecting (flipping) shapes across a mirror line • Translating (sliding) a shape across a quadrant	Play reflecting games with a mirror - highlight how the shape appears to 'flip over' but it does not change dimensions/shape Explore with tracing paper (greaseproof paper works too!) - draw a shape, trace it, flip it over. Build a lego shape on one side of a line - challenge your child to recreate it on their side exactly the same distance away from the line Draw half of a design - challenge your child to draw the other half as a reflected copy Treasure hunt things around the home that have lines of symmetry