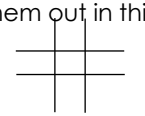
Cockenzie Marvellous Maths Activities

Early	First	Second
Sort it: Ask an adult for a selection of objects such as hair clips, socks or toys. Then sort the items by size. Once you have finished, try sorting the items a different way, e.g. by colour, pattern, shape, etc.	**Stick Sudoku:** Find 4 sticks. Lay them out in this pattern, like a grid.  Try to find as many sticks, leaves or even blades of grass. Your aim is get 10 in each row, horizontally and vertically.	**3D Shapes:** Collect a range of twigs. Try to build a pyramid with your sticks. Can you make it stand up completely by itself? 
Outdoor Patterns: Using items that you can find outside, create a pattern. Try leaf, stone, leaf, stone, etc. or stick, stone, grass, stick, stone, grass.	**Measure:** Find a household object. Use this to measure different parts of your body: Arms, Legs, Head, Eyes. Write down your measurements. You could estimate how long it is and guess an accurate length, then test your accuracy.	**Create a New Sauce Design:** A net for a shape that will be the package for a new product. The new product is a type of sauce to be used when cooking. It comes in the shape of a tin but, for its launch, you have been asked to design a new box that the tin will fit into. Make sure the net of the shape has a clear outline so that it can be copied and manufactured. You could create the new logo, name and design of the sauce product as well.
The Longest Leaf: Can you find any leaves? Try and collect some and then put them from smallest to largest. Can you put them in any other order?	**Greater Than or Less Than:** Write down seven comparisons of objects or facts about people using the greater than > and the less than < symbols, e.g. Grandad's height is > Gran's height or the hairdryer's weight is < the TV's weight.	**Ordering Journeys:** https://nrich.maths.org/13268 After you have ordered your journey, see if you can plan a holiday to one of the destinations. See if you can get the cheapest deal possible!
These Boots were made for walking: On your walk, or in your garden, estimate how many steps it will take you to get around the outside of it. Then test your estimate by walking round counting your steps. Were you right?	**Estimate and Rounding:** Write down the age of each person who lives in your house, you can also add in family members who don't live with you as well. Estimate what you think the total of all the ages would be if you added them up. Then add them up to check how close you were. Now look again at each person's age and round it to the nearest 10.	**Four by Four:** You will need some squared paper. Draw a grid of either 4x4. Divide the grid into identical parts symmetrically and by area. Find 6 ways to do this by drawing a line.  An example is above.
Crayon/Pencil Measure: Find 5-10 toys, guess how tall they are in crayons/pencils. Measure your toys and see if you were right!	**Stick Structures:** When you are out for your daily walk can you spot any sticks? Try to gather as many as possible. When home sort them out in an order, then try to build something with it.	**Sweets in a Box:** https://nrich.maths.org/84 Work through this problem and see if you can organise all the sweets in time!