Year 1 Autumn 2
Maths Rocket Challenges

Please return to school by Friday 5th January

Hook Infant School

Challenge 1: Look at some coins. Can you sort them into different groups? Think about sorting them in terms of their colour, shape, value, if they are in pence or pounds etc.

Challenge 2: Count how many times you can throw and catch a ball without dropping it. You could do this on your own or throw the ball with someone. Was it more or less than 20? Can you beat your best score?

Challenge 3: Ask a grown up to hide a teddy. Ask them questions to find out where the toy is hidden. They can only answer yes or no. Use key language such as "Is the teddy above/behind/underneath/ next to/near" to start your questions.

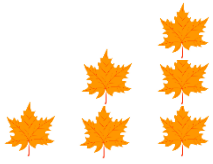
Challenge 4: Collect some sticks roughly the same length. How many 2D shapes can you create with the sticks? Will it be possible to make a circle? Think about why this might be.

Challenge 5: Do 10 jumps in every room in your house. How many jumps have you done in total?

Challenge 6: Before you go to bed, draw what the analogue clock in your house looks like. Don't forget to record the numbers in the correct position on your clock and think about the length of the long and short hands (minute and hour hands). When you wake up, draw it again. How have the hands of the clock changed?

Challenge 7: Ask a grown up if you can have a coin (or you might need to earn one!) When you are taken to a shop, try and spend your 1 coin. No cheating! You can only buy something for that amount or less so do not choose something too expensive!

Challenge 8: Head outside and collect natural resources e.g. acorns/leaves/stones. Make your own number line starting at 0 by lining up your resources. What number did you reach? E.g.



(1) (2) (3)

Challenge 9: A cylinder is like a tin can; it has 1 curved side and 2 flat circular sides. It has 2 edges and no corners. Is there anything else you can see that is the same shape as a cylinder around? Can you do this with any other 3D shapes?

Challenge 10: Ask a grown up to time you for a minute. How many star jumps can you do in that time? How many seconds was it? Swap over. Who did more star jumps?

Record the challenges in any way you choose. For practical tasks, adults may want to sign to say the children have completed it. Bring your work into school when it is all completed for a special certificate!