Year R Summer 2
Maths Rocket Challenges

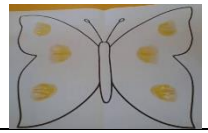
Hook Infant School

Challenge 1:

With a partner can you mirror each other's number of fingers. For example, if your partner A shows 4 fingers, partner B must show 4 fingers too. How many have you got altogether?

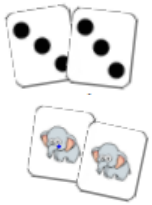
Challenge 2:

Provide large paper with a fold down the middle. Draw a butterfly and encourage your child to make doubles by adding blobs of paint to one side of the paper only. Then fold the paper over to make the double.



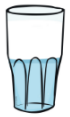
Challenge 3:

Play **snap** or **matching pairs** games using pictorial playing cards or dot cards. Encourage the children to say the doubles as they make them. The person with the most doubles or pairs of cards at the end wins the game.



Challenge 4:

Using a range of different sized and shaped containers and some pebbles. Ask the children to half-fill their containers with water. What happens to the water if they add pebbles to their container? How many pebbles will they need to add to make the container overflow?



Challenge 5:

Ask your child to make groups using animals/ toys. Can they make groups of 2? What happens if they make groups of 3? Can they make more groups of 2 or more groups of 3?

Challenge 6:

Use natural materials or loose parts to create repeating patterns. Encourage the children to make different patterns which have the same structure? Can they build a circular repeating pattern which continues around the circle?

Challenge 7:

Show your child some photographs of bridges and talk about what they notice. Encourage the children to work together to build the longest bridge they can. How will they measure it? What about the strongest bridge? How could they measure it's strength?

Challenge 8:

Provide some threading beads or coloured pasta and ask your child to thread the items in groups to create a necklace. Do all of the necklaces have equal groups? Compare the necklaces. What's the same? What's different?

Challenge 9:

Challenge your child to build a tower as tall as they can before the timer runs out. How many blocks did they manage to build? What if each block was worth 2 points? How many points did they score? Challenge them to have another go and to see if they can score more points.

Challenge 10:

Provide 2 teddies and plates and a selection of items for halving. Ask the children to explore which quantities will halve exactly into 2 equal groups and which will have one left over. If you have 6, can you give both teddies the same? What about if you start with 5?

Scan these QR codes for some maths stories that support our learning this half term.

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!