



JORDANS SCHOOL

MATHS NEWSLETTER

Year 2 Geometry—Position and direction



This newsletter is intended to help you to explain position and direction of objects to your children, as this is a maths area we were due to begin this half term. We have given you some suggestions of activities for them to do, please don't feel you need to do all of them! Try if you can to order and arrange combinations of mathematical objects in patterns and sequences using the correct mathematical vocabulary (see below). Objects should move in a straight line and in a rotation, thinking of a turn in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise). Your children have already had some experience of this concept this year when they were learning how to create games using Scratch in our computing lessons, so we know they will really enjoy this. There are lots of online games for them to play to help with this which are listed in the websites section. Have fun!

MATHEMATICAL VOCABULARY

Children are expected to know and use the correct mathematical vocabulary. When talking about an object moving or changing direction try to always use the words below.

Position, direction, forwards, backwards, left, right, up, down, over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, centre, corner, direction, journey, route, turn, clockwise, anticlockwise.

USEFUL HOME LEARNING WEBSITES

All of the websites below have a selection of useful videos, games, explanations and worksheets to help.



<https://pbskids.org/peg/games/hungry-pirates>
<https://www.bbc.com/bitesize/clips/zjyb9j6>
<https://mathsbot.com/manipulatives/numberFrames>
<https://apps.mathlearningcenter.org/pattern-shapes/>
<https://nrich.maths.org/9023>
<https://www.bbc.co.uk/bitesize/topics/zwyyv4wx>

FUN ACTIVITIES TO DO AT HOME

Can you get someone to give you directions in the garden whilst you have your eyes shut (or a blindfold on), make sure you get them to use lots of directions and maths vocabulary. Perhaps they could guide you to a special spot. Take lots of care not to bump into anything!

What about creating your very own treasure map? You could draw one out and then use instructions to help someone find the treasure. If you are feeling very creative, what about actually creating this in your garden or even inside?

The Hip Hop Granny in the following link will help you get moving while learning Geometry! This routine will teach you about position and direction. It covers important language like left and right, clockwise and anticlockwise. <https://www.bbc.co.uk/bitesize/topics/zwyyv4wx>

If you have an atlas or map at home, why don't you try to plot out different routes to countries you might like to visit?



PROBLEM SOLVING

Once your children fully understand position and directions, they should begin to practise using their knowledge by solving problems, for example:

What comes next?



Can you make up your own problems like these?