

# Outdoor/Indoor Learning

## Position and Direction:

Using the following mathematical language can you write a set of instructions to get you from one area to another, for example from your kitchen to your bedroom.

Forward 4

Quarter turn left

Forward 7

Half a turn right

Forward 2

## Symmetry:

Have you ever noticed that most mini beasts are symmetrical? Look at some pictures of beetles, butterflies, ladybirds, flies. Can you create your own symmetry bug out of natural materials?



## More Symmetry:

Nature is full of symmetry. Collect some fresh leaves, carefully cut them in half, and stick the down on a piece of paper. Now carefully draw the other side of the leaf so that it is symmetrical. Finally colour the leaf.



## What do you know about the number?

Choose a number of your choice, then write down as many things as you know about the number as possible in ten minutes. Think numerals, words, multiply, add, divide, subtract, odds, evens, pictorial representations, worded problems.

## Can you make?

Choose a two digit number of your choice. Then using playing cards see how many combinations of cards you can use to make your number. Ace can count as 11 or 1

Can you challenge yourself by using higher numbers?



Number Challenge.

Pick 3 single digit numbers of your choice, say 4, 1, 9

Use all 3 numbers to create:

- An odd number
- An even number
- The largest possible number
- The smallest possible number
- One more than the largest possible number
- One less than the largest possible number
- Ten more than the largest possible number
- Ten less than the largest possible number
- One more than the smallest possible number
- One less than the smallest possible number
- Ten more than the smallest possible number
- Ten less than the smallest possible number
- How many different numbers can you make out of the numbers in total?
- How much do the 3 numbers total altogether?
- Can you write these number as words?