Estimate how many stairs, how many steps, how many cars?
When you are out on a walk find everyday objects in the environment to estimate and count.
How many steps to the local shop?
Estimate the steps and then count using a step counter/phone or google maps. Your estimation skills develop the more you work on them so repeat this activity often. You will find you become more accurate.
Remember an estimate is a rough answer not the exact answer.
Plan, estimate and count steps for routes to the local park, library or supermarket.
Collecting and Displaying Information
How many cars
can you see and how many of each type?


Create a tally chart and decide what the criteria for your search will be, e.g. colour of vehicle, type of car or type of vehicle. Use tally marks to keep track of what you see.

Alternatively choose something from nature to record, e.g. types of leaves, animals or birds.

How can you display your information? Make a graph or table on the ground using leaves or stones to represent each item being counted. If you have chalk you could add tally marks.


## How high can you count?

Who likes to jump? Jump on the pavement slabs or on and off a kerb, (in a safe place) counting in 2's, 5's and 10's.
Bang a fence or the ground with a stick keeping a rhythm, as you walk, count in your chosen multiple at the same time. Count forwards and backwards. Counting backwards is always trickier. Start from numbers other than 0 to make it trickier.

> Numeracy and Mathematics In the Outdoors

First Level Home Learning Planner



## Parent/Carer/Child Planner

"Learning outdoors can be enjoyable, creative, challenging and adventurous and helps children and young people learn by experience and grow as confident and responsible citizens who value and appreciate the spectacular landscapes, natural heritage and culture of Scotland." (Curriculum for Excellence through Outdoor Learning)

Number Processes

## Equal Groups

Make a variety of equal groups. This is the first steps in multiplication and division.
How many groups have you made, how many are in the group, how many altogether? What does equal mean? Use objects from nature to make the groups, items such as pebbles, pinecones, leaves etc. Take a photograph of your groups or record on paper.

## Arrays

Arrays are rows and columns of objects. They are all around us. On walls, windows fences etc.

## What array

patterns can you
find around your

local area?
Look for array patterns, make your own arrays using your toys or stones or items from the garden/park. Record how many rows, how many columns and how many altogether? Counting in Tens
How many bundles of ten do you have? Collect sticks or twigs and put them in bundles of ten. How many bundles do you have and how many sticks altogether? Use the bundles of ten to help you work out your ten times table.
What is 100 take away 40 ?
Use your bundles of ten sticks to add and subtract multiples of ten, think of questions and answers e.g. what is 30 add 20,80 take away 40 etc. use the sticks to help you work out the answers.

Measure

## Length

## What is the longest/shortest?

Gather a variety of sticks, as you gather them estimate if they are longer/shorter than the previous one. Lay them out in order from shortest to longest.

## Volume

How much does it hold? In the garden gather a variety of containers. Use a litre bottle as your measure. Estimate and fill other bottles to see how much they hold. Sort the containers into groups: less than a litre, about a litre more than a litre. Repeat with a halflitre measure and other containers.
Area
Build a den in the garden or park. Use sheets of newspaper to measure the base of the den. How many sheets of newspaper does it take to cover the floor of the den? If you don't have newspaper use pages from a magazine.

## Pattern

What kind of repeating patterns can you make?
Choose natural objects from the garden or park. Create a pattern using two or 3 items, can you repeat your pattern. Make your pattern more complicated by using more objects. Taken a photograph of your pattern if you are able to.
What patterns can you see around the environment? Look at leaves, animals and insects, what patterns can you see?


