

# Optional Science Home Learning Tasks

## Animal snap:

Firstly, you will need to understand the different types of animals; insects, fish, amphibians, reptiles, birds, and mammals. If you don't know these already, ask a grown up or look on the internet or in a book. You will need to know example animals in each category and what the differences are.

Now your job is to make a game of animal snap. Think of 3 or more different animals per category and draw and name the animal on small pieces of paper or card. For example, for fish I will draw and label salmon, tuna, trout, and angelfish. For amphibian I will draw and label frog, newt and salamander. Each animal has a separate card. Shuffle them up. When 2 from the same animal group appear – that's snap!



## Health challenges:

- Create an exercise routine for you and your family that can be completed either indoors or in the garden. Include a variety of exercises that will get your heart rate up and your blood pumping! Consider exercises that include as many different body parts as possible, making sure to stretch before and afterwards to avoid any injuries!
- Create your own healthy eating poster.

## Nature challenges:

- If you have a garden, go on a bug hunt. When you have found something, don't touch it – just watch. What does it do? Where does it go? Look at it really carefully. Create a bug note book. For each exciting find, sketch it and record your notes. If you prefer, you could bird watch or study plants instead of bug hunting or do all 3! If you are unable to get outside – spider hunt in the house – there must be one somewhere!
- If you are able to go for a daily walk/cycle – can you identify the trees that you pass? You could photograph them (no time to stop and sketch), collect fallen leaves and seeds and look carefully at or photograph the bark. When you return home you may need to do some research to identify the trees if you are unsure. Create your own tree guide. (Or if you cannot get outside - what trees and plants can you see from your window?)
- Do all daisies have the same number of petals? Collect 20 daisies either from your garden or during your daily walk. When you get home, start counting petals and record the numbers. Use your maths skills to create a table or graph.
- Grow something in the garden or in a pot. Find a way to record the changes – (measure, sketch, photograph).

## **Shadow Puppets:**

For this activity you will need a blank wall and a torch or lamp. Firstly, make a shadow on the wall with a piece of paper and investigate how you can make the shadow bigger or smaller. Should you move the paper or the lamp? Towards the wall or away from it?

Now you are going to make a more interesting shadow- a shadow puppet! Cut out a shape of your favourite animal and one of yourself. You may wish to put them on a stick if you have one. Can you make a shadow puppet play for your family? Could you make a monster shadow puppet?!



## **Make a sundial: (On a sunny day!)**

Use a pencil or stick held vertically to produce the shadow. On each hour record the position of the shadow. Remember, you must keep your sundial facing the same way each time you use it. When you have made your sundial and drawn the position of the shadow at each time, you can then use the shadow to tell what the time is.



## **Body bits:**



Draw the outline of a body (gingerbread man style!) Then have a go to place some of your organs – brain, heart, stomach, intestines, liver and kidneys. Research – what do they all do? You could also draw around your hand and foot and have a go at drawing the bones inside.