

## Cheeky Monkey's Maths in Nature Challenge

Cheeky Monkey has been reading the RSPB magazine "Wild Times" and thought this was a great way of doing some extra maths!

1. Estimation and counting - Place a hoop (or create a circle with a skipping rope or similar) on the grass. Guess the number of flowers inside then count them. How different was your estimate from the actual count?



2. Counting - Find a dandelion seed head, known as a dandelion clock. How many blows does it take to blow all the seeds off?



3. Shapes - collect natural objects such as stones, leaves and twigs. Can you make different sized circles on the ground with your collection? What other shapes can you make?



4. Measuring - Find six sticks and put them in order from shortest to longest.
5. Tallies - birds, bees, butterflies, minibeasts - how many can you spot of each time in 10 minutes - use a tally to count them under each heading. Is it a different number at a different time of day?
6. Time - Push a long stick into the ground. Mark the tip of the stick's shadow with a stone. Then mark the shadow's tip every 15 minutes with a new stone. Does the shadow get longer or shorter? Does the shadow move round?
7. Patterns - collect a range of things such as stones, leaves and twigs and then make a repeating pattern with them. Can you use your collection to make different repeating patterns?