

**Title:** Numbers - Sundial Paper Plate

**Learning objective:** To learn the English words for the numbers 1-12

**Materials needed:**

Paper plate  
Pen  
Lolly stick  
Blu-tac  
Ruler  
Sticky tape  
Paints  
Paintbrushes

**Introduction to lesson:**

In the seventh lesson, we will observe the shadows cast by the sun and how they change during the day. We will make a sundial and use it to record the shadows cast at different times. This activity should take place outside on a sunny day in an area that has sunshine all day long. After completing the sundial activity, we will complete three additional activities to learn the English words for the numbers 1-12: a vocabulary exercise, a word search and an activity to complete some sentences with missing words.

**Craft activity: Sundial paper plate** - <https://reepinfo.org/agdz-7-craft>

Paint a colourful design onto the paper plate and leave it to dry. Put a small piece of blu-tac onto the end of the lolly stick and stick it firmly in the centre of your plate with the stick pointing upright. Now your sundial is ready, take it outside to an area that has sunshine all day. Tape the plate to a flat surface so that it doesn't blow away. Look at the shadow cast by the sun hitting the lolly stick. Use a pen and ruler to draw the shadow line onto your plate and write the time at the end of the line. Return to the sundial every hour to see where the shadow moves to, recording the shadow line on the plate each time on. Can you see a pattern emerging and guess where the shadow line will fall next time?

**Vocabulary activity** - <https://reepinfo.org/agdz-7-vocab>

Look at each of the numbers and say the English words for them. You can listen to the words and practise saying them first, then practise writing them.

**Word search activity** - <https://reepinfo.org/agdz-7-wordsearch>

Look at the different numbers you have been learning in English and try to find them all in the grid. How quickly can you find them? You must find the word by finding all the letters in the word together in the correct order - this can either be forwards, backwards, up, down or diagonal.

**Sentences activity** - <https://reepinfo.org/agdz-7-sentences>

There are twelve sentences in this activity. Each sentence has a missing word that is a number. Find the correct missing number and put it in the space to complete each sentence. There is one missing word for each sentence.

**Notes:**