

## Worksheet Activity: Working With Binary

The binary system uses **zero** and **one** to represent whether a card is face up or not. **0** shows that a card is hidden, and **1** means that you can see the dots.

For example: 010001 = 9

Can you work out what **10101** is? What about **11111**?

What day of the month were you born? Write it in binary.

Find out what another student's birthday is in binary.

Using the symbol key document and the symbol cards that you were given, determine what the values are. You will also need to use the morse code sound files on a computer.

**Extra for Experts:** Using a set of rods of length 1, 2, 4, 8 and 16 units show how you can make any length up to 31 units. Or you could surprise an adult and show them how they only need a balance scale and a few weights to be able to weigh those heavy things like suitcases or boxes!