

# DeSIGN & TECHNOLOGY: ELECTRONICS

To do well in Electronics you need to understand mechanical and material properties. Try these challenges at home to get thinking!

## EXCELLENT electricity

Make a list using words/drawings to find all the things in your home that use electricity. If you could keep only one item, which would it be? Why?

## HOW tall are you IN Feet?

Draw around your foot onto paper and cut it out. Use your paper foot to find out how many 'feet' tall you are. What else can you measure?

## FUN With FLIGHT

Design and make a paper aeroplane that will travel the furthest.

Does changing your design make it go further?

## AS iF by Magic

When light travels from one material to another it bends. Draw a small arrow pointing left or right on a piece of paper. Fill a large, transparent glass with water. Hold the arrow behind the glass of water. What happens? Try this out with letters of the alphabet. Does it work with them all?

## TALLEST tower

How can you make the tallest free standing tower from just one piece of A4 paper? You can use a pair of scissors, but no glue or tape is required.

