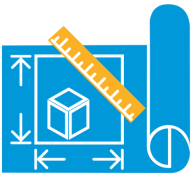


Design Brief—Make a rainbow appear using items around your house. You can create the rainbow with moving parts, computer code, or any science you can think of!

Look at the **ideas and inspiration** section on our website and explore your home to find examples of rainbows.



Look at the **hints and tips** from our expert engineers. How could you make rainbows using materials or technology found in your home? Draw and label your design here:

What materials and equipment do you need?

Health and safety
Talk to a parent or carer about how to **build** and **test** your prototype safely.

Decide how you will test how well your creation works. Predict what will happen when you test it.



Make your design and then test it. Make observations and record your results here. You could do this in a table, chart, graph or labelled diagram.

On our website, look at what our experts made. Think about how their advice or ideas could help improve your creation.





Can you improve your creation to get better results? Make changes to your design, then test it again. Record observations and results here.

Did the changes improve your results? Why, or why not? *Have another go if you want to.*



To find out more about how what you have done links to careers in engineering, look at the **Become an Engineer** section on our website.