

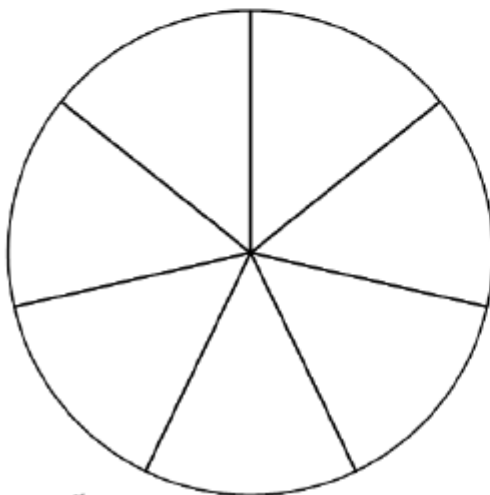
L.O: To investigate the colour spectrum

1. Watch the Powerpoint: Spectacular Spectrum
2. Make a water prism to use refraction to split sunlight into the colours of the spectrum!
Fill a bowl or other large container two thirds full of water, place it in full sunlight, and submerge a mirror in it at an angle- you may have to jiggle it around a bit. Hold a piece of white card to intercept the reflected ray of light, and you should see the colours of the spectrum on the card!
3. Watch the video: <https://www.youtube.com/watch?v=7iV1m4j2wJQ>
4. Complete this sheet and make your own colour wheel. Can you make the colours disappear?

You shone a ray of light through a prism. What happened? Draw or write about what you observed. Can you explain why this happened?

Use the instructions below to create your own colour wheel. What do you predict will happen when you spin it?

Try it! Make the colour wheel then use the string to spin it. What happens? Draw or write about it below. Was your prediction correct? Can you explain why this happens?



Colour Wheel Instructions

1. Colour each section a colour from the spectrum - the first section will be red, the next one will be orange, then yellow etc.
2. Cut out your colour wheel and draw around it on some cardboard.
3. Cut out the cardboard circle, then stick your colour wheel to it (colours facing out so you can see them!)
4. Make 2 small holes near the centre of your colour wheel.
5. Thread a 1m length of string through the holes, and tie the ends together.
6. Move the wheel along the string so it is in the middle.
7. Turn the string over again and again, like you would turn a skipping rope.
8. Pull the string tight to make the wheel spin!