

Eyes and rainbows



Learn more about colour with the Resene Everywhere colour series. Modules include:

Changing colour

Colour wheels

Colour and nature

Colour in art

Colour of light

Decorating colour

Dissolving colour

Dotted colour

Everywhere colour

Eyes and rainbows

Filtering colour

Illusion and tricks with colour

Making colour - Dye

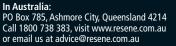
Mixing colour

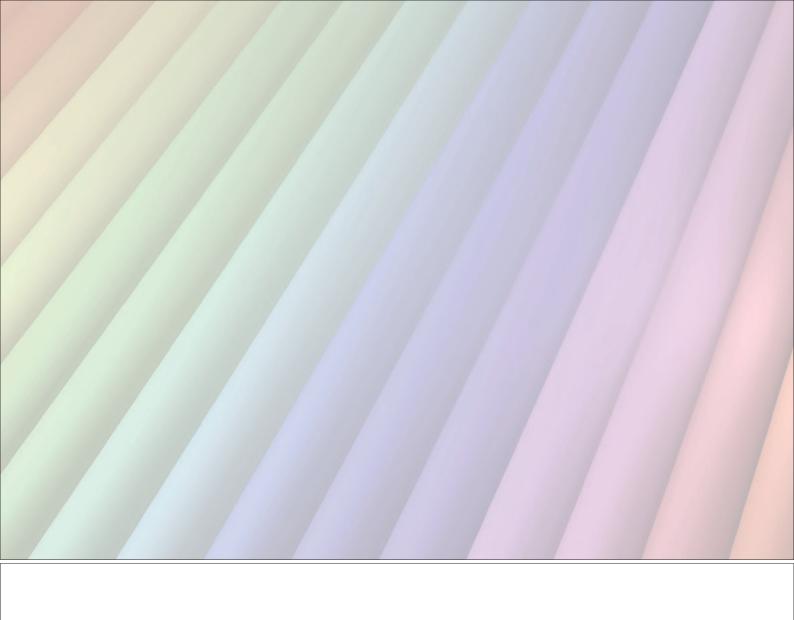
Reflecting colour

Safety colour

Seeing colour - Animals

Seeing colour - Humans





Eyes and rainbows

Sometimes when it rains the sun shines. This is when you may see a rainbow.



White light is not white, but is actually made up of lots of other colours.

You can break white light into the individual colours. Get yourself a torch, a prism and a white piece of paper. Put the piece of white paper onto a flat surface and put the prism on top. Shine the torch into the side of the prism and you will see the white light broken into the colour spectrum.

Isaac Newtown discovered in the late 1600's that you could split light. This was a major step forward in understanding how colour works. When light hits a glass surface it is bent. This is called refraction. When light hits a prism, which is triangular, the light is refracted (bent) twice and gets split into the spectrum of colours.



Create your own rainbow...

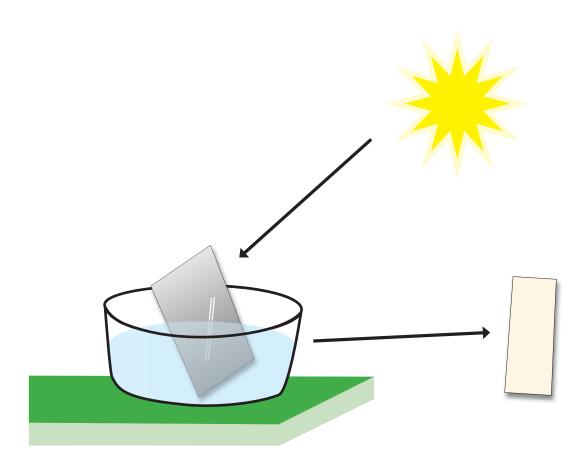
If you don't have a prism you can create your own rainbow using a clear bowl of water, a flat mirror and a white piece of cardboard. You will need to try this experiment on a sunny day for it to work.

Fill a bowl of water and place it in front of a window where the sun is coming in. Place a mirror on an angle inside the bowl of water so it is facing towards the window. Hold the white card in front of the mirror and move it around until you see a rainbow.

The mirror and water act like a prism splitting the white light from the sun.

Total Colour
System

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You can also see the colours of the rainbow when you blow bubbles.

If you have a light shining onto the bubbles after they have been blown you can see the spectrum of colours curving around the edge of the bubble.

If you are doing the dishes with sunlight coming through the window or the kitchen light on you can often see rainbow colours in oil that rests on top of the surface.

It is said that there is a pot of gold at the end of every rainbow. It is impossible to get to the end of a rainbow as you can only ever see the effect of a rainbow in the distance.



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