

Have you ever wondered why the sky is blue? `looked at a bubble and seen colours on its soapy surface?/

## Activity

What do you predict you will observe if you look at a red sheet of paper through the diffraction glasses?



Write down your prediction on your sheet. Now put on the glasses and observe the paper.



Were your predictions right?

When you look at a red sheet of paper only the red light is reflected to your eye – and you see the paper as red. Science tells us that everyday light contains all the colours of the rainbow.

Can

science help us to

explain colour?



English

Theology, Religious Studies

Sir Isaac Newton (a scientist who lived over 300 years ago) discovered he could

The Arts

split up the colours in light using a prism.

When



sunlight passes into a bubble, the bubble

bends the rays of light and splits the colours.



Blue light is scattered more than the other colours. By the time it reaches your eyes, it seems to have come from all over the sky.



So why is the sky blue?

Sunlight (containing all the rainbow colours) reaches Earth's atmosphere and is scattered in all directions by the gases and particles in the air.

Remember – never look directly at the sun.



Space

