

Key facts:

- When light hits an object, the object **reflects** some of that light and **absorbs** the rest of it. Some objects reflect more of a certain **wavelength** of light than others. That's why you see a certain colour.
- White is a combination of all colours. When you see white, all the wavelengths are being reflected. None are being absorbed.
- Black is the opposite of white. All the colours are being absorbed. Nothing is being reflected.

Important questions:

What exactly is colour? And how do we see it?

How important is colour?

Do all animals see in colour?

Which is the warmest colour?

How are certain colours made?

What are the primary colours?

What are the secondary colours?

Do all people see colour the same?

Why do problems with seeing colour occur?

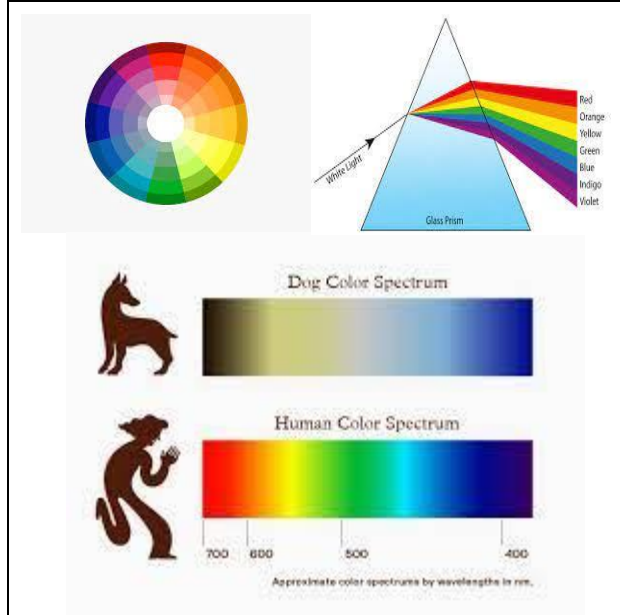
Hopton Primary School

Knowledge Organiser for KS2 Year 3/4 Topic: Colour Chaos

What do we need to learn?

- *learn why and how humans and other animals see colour and why they need to see it, and why animals are certain colours.
- *understand how colours are created and that light is made up of all colours.
- *conduct fair tests and make careful observations in relation to their results.
- *ask relevant questions in relation to their scientific enquiry.

Key Images to discuss



What I should already know:

KS1	Have an understanding of the investigative process.
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Links to Future Learning:

KS2	Light and shadows
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Key Vocabulary:

Word	What does it mean?
colour	a quality of light as our eyes see it.
camouflage	a way of hiding something by covering or colouring it so that it looks like its surroundings.
light	the form of energy that makes it possible for the eye to see.
Gamma rays	electromagnetic radiation of high energy and frequency, produced by reactions of radioactive atoms or by high energy electrons interacting with matter.
Wave lengths	the distance between two points in the progression of a wave, esp. of sound, electromagnetism, or the like.
absorb	to take in or soak up.
reflect	to throw back from a surface.
predator	an animal that hunts other animals for food.
x-ray	a beam of high-energy radiation that is able to pass through many kinds of solid material.

Key skills for you to practice:

Colour mixing using paint

Your predicting skills, what do you think will happen? You could do this reading a story or watching a program.

Can you try organizing yourself and being logical in jobs around the house.

