





visible form of **energy**


natural or man-made 

sometimes called **white light**


- a colourless light that contains all the colours of the visible spectrum

a light source **emits** light 

light

only travels in **straight lines** 

300,000,000 metres each second

circumnavigates the Earth **7.5 times** in just **one** second 

visible spectrum

white light is shone through a **prism**

the colours of the visible spectrum **separate**

produce a rainbow (colours of the visible spectrum)

prism

transparent object with two triangular ends and three rectangular sides.

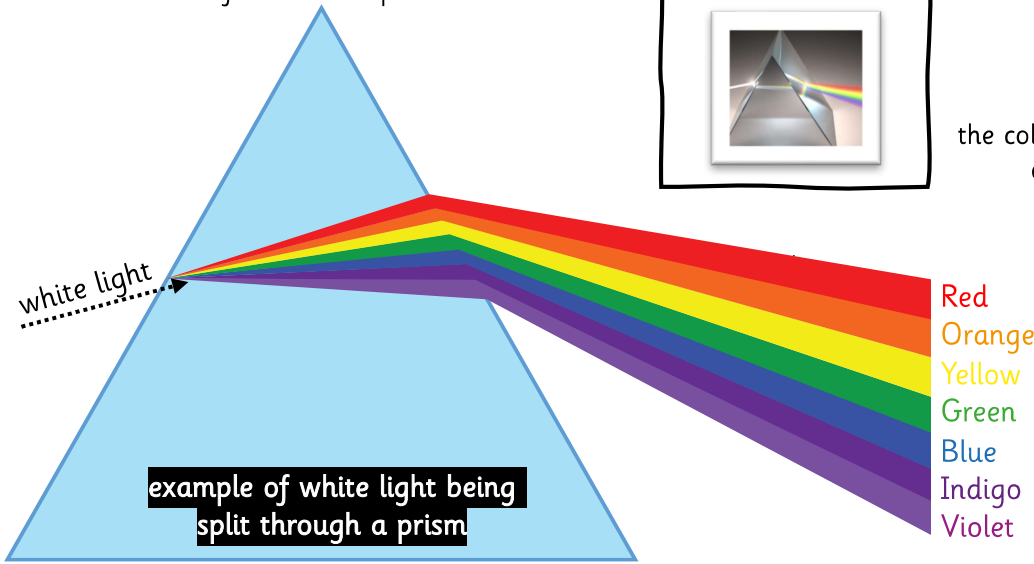


In 1666 (more than 300 years ago) **Isaac Newton**



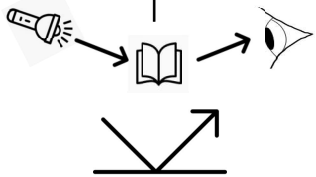
discovered light was made of colours

when spun, the colours of the visible spectrum combine to form white



we see an object

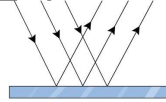
light is **reflected** off a surface and enters our eyes



shiny or **smooth** surfaces

reflect light in the **same** direction

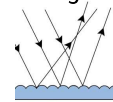
clear reflected image



rough surfaces

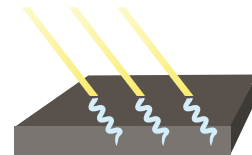
reflect light in a **scattered** direction

less clear reflected image



dull or **dark** surfaces

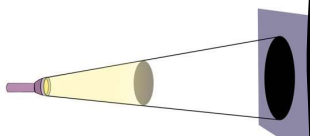
absorb light and heat energy



shadow

when an object blocks the path of light

a space that lacks light



How we see colour

objects that have colour pigments **absorb** light

a blue object absorbs all other light colours

blue is the only colour reflected and seen

