



Set of 6 rechargeable torches and mains charger. Use to investigate light and shadows.



Try this NUSTEM shadow tubes activity:

<https://nustem.uk/activity/shadow-tubes/>

Discover how to create shadows using a toilet roll tube, a torch, some cling film and paper, stickers or foil.



12 x shadow changing demonstration kit. Model how shadows change over time by using a torch to represent the sun. Place an object in the centre of the arch and shine the torch from each marked hour.



Try this NUSTEM sun dial activity:

<https://nustem.uk/activity/sun-dial/>

Make a sundial to tell the time using the sun and the way that shadows change across a day.

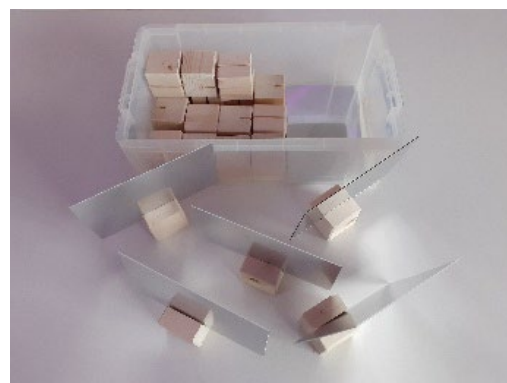




LED light source device- 2 x red, 2 x blue, 2 x green. Use to show light travels in a straight line and investigate mixing light colours. Use to investigate with mirrors, lenses and prisms.



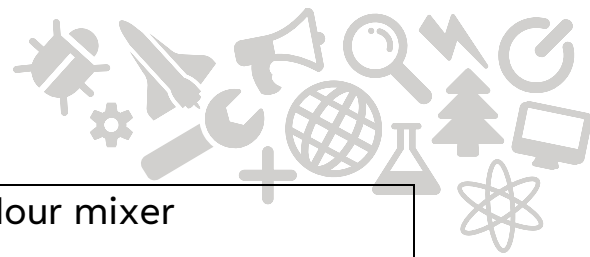
Mirrors- large, small, concave/convex, mirrored sphere. Use with to investigate reflection using torches or LED light source devices.



Mirror blocks. Use with torches or LED light source devices. Angle the mirrors to reflect light in different directions. Investigate the different pathways that can be created. How many mirrors can you use with one beam of light?



A boxed set of different shaped and sized prisms. Use with LED light source devices to investigate how lenses and prisms change light.



White light colour mixer demonstration model. Did you know that white light is made up of all the colours of the spectrum? Discover what happens when the wheel spins quickly.



Try this NUSTEM spinner activity:

<https://nustem.uk/activity/spinners/>

Use a circle of card and a pencil to investigate how the light we see is made up of the different colours of the spectrum.



Ultraviolet (UV) torches. We can't see UV light but it is in sunlight and can burn our skin. This is why we wear SPF (sun protection factor) sunscreen. Use with UV pens, beads and loom bands.



UV pens- write a secret message then use the UV torch to see what it says. To make "invisible ink" that shows up under UV light, soak the centre of a high lighter pen in a beaker of water overnight.



UV beads and loom bands to make bracelets. Watch the bands and beads absorb the UV light when you shine the UV torches on them or go outside in the sun, and re-emit the energy as visible light.

Books for this topic

