

Recapped Knowledge and Vocabulary

Translucent, Transparent & Opaque

transparent: ALL light passes through

translucent: SOME light passes through

opaque: NO light passes through

LIGHT SOURCES: Things that give off light

- sun
- fire
- stars
- flashlight
- light bulb
- candle flame

Sun protection

- Slide on sunglasses
- Seek shade
- Slap on a hat
- Stop on SPF30+ or higher sunscreen
- Slip on protective clothing

Light and Shadow

light

opaque hand

shadow

New Knowledge:

Light travels in a straight line.

We see things because light travels in a straight line from a light source, reflects off objects, and into our eyes.

Image Credit: Pzaz Science

Image Credit: Ruby Tuesday Books

Working Scientifically

Carefully drawn and annotated diagrams.

Present learning in an oral presentation.

New Vocabulary

light	A form of energy that enables us to see
light source	An object that gives off light.
reflect	When light bounces off a surface.
Light ray	Light traveling in one direction is called a light ray.
Light beam	A group of light rays given out from a light source is a light beam.
shadow	Darkness the occurs when an object blocks the light.
refraction	When a ray of light change direction when it enters at an angle.

Light travels in straight lines. When light is blocked by an opaque object, a dark shadow is formed. The further away the light source is, the smaller the shadow is. The closer the source of the light, the bigger the shadow.

The colours in a rainbow actually come from light. A beam of sunlight or the light from a torch may not look colourful, but it is made up of seven different colours.

How a Rainbow Forms

- When light hits a raindrop, the light refracts, or bends.
- As the light bends, it splits and spreads out into the seven colours.
- Some of the light reflects off the back of the raindrop. As this light leaves the raindrop it refracts again, splitting and spreading more colour.
- The colourful light reflects off the raindrop into our eyes.
- When this happens with billions of raindrops at once, we see the colourful light as a rainbow.