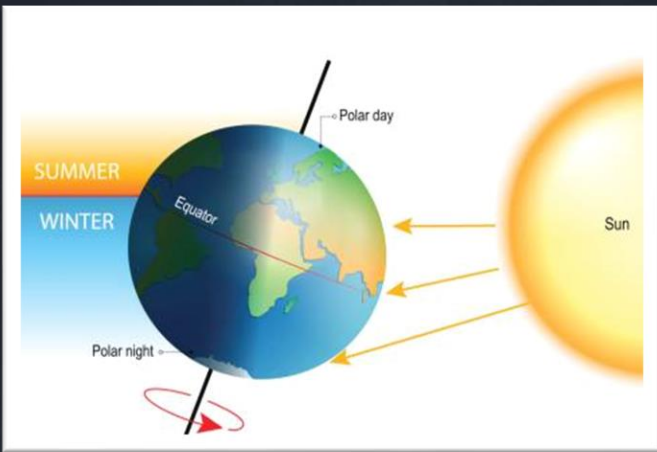
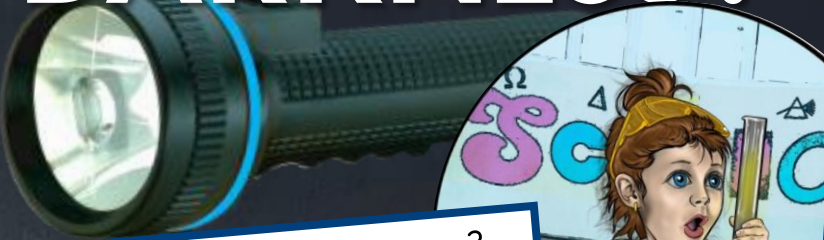


# WHAT IS DARKNESS?



This diagram shows how the rays of sunlight travel in straight lines and hit the earth in different ways. This causes our seasons.



Scientist

Which of these is opaque?  
Remember, opaque means no light can pass through.



How many light sources can you think of?

Shadows are formed when light is blocked by an opaque object. The absence of light creates darkness.

Sometimes shadows are long and large, while sometimes they're small! Why?



- Vocabulary:**
- light
  - source
  - reflective
  - shadow
  - dark
  - absence of light
  - rays
  - travel
  - position
  - bounce
  - lines
  - surface
  - mirror
  - direction
  - block
  - opaque
  - translucent
  - transparent
  - bright
  - dull
  - illuminate

## What knowledge do I already have?

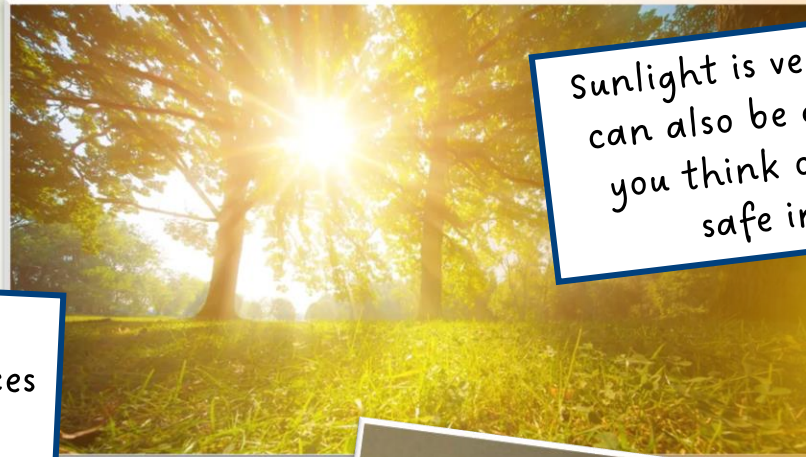
KS1 (Year 1 & Year 2):

- Arctic, Antarctic
- Seasons and weather
- Opaque, transparent and translucent
- Shiny and matt surfaces



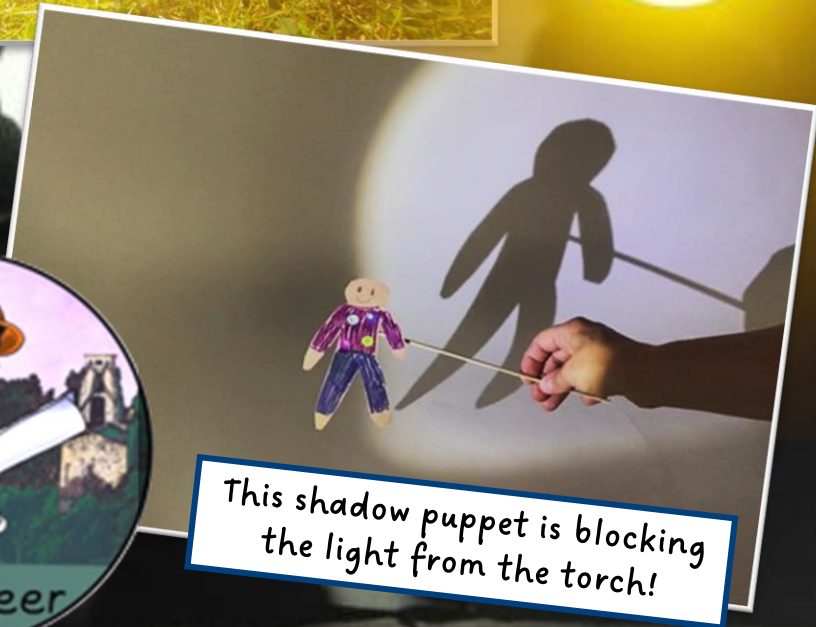
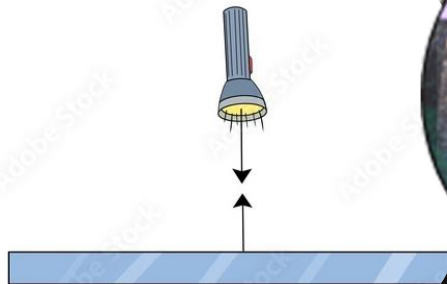
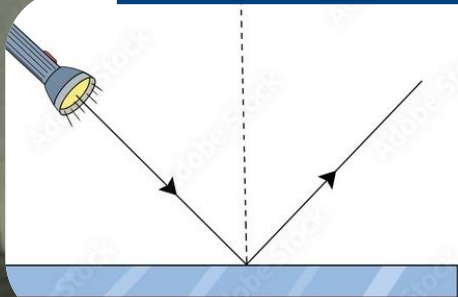
# WHAT IS DARKNESS?

Sunlight is very useful, but it can also be dangerous. Can you think of ways to stay safe in the sun?



These pictures show highly reflective surfaces and matt surfaces. Which is which? How do you know?

Light travels in straight lines and reflects off some surfaces predictably.



This shadow puppet is blocking the light from the torch!