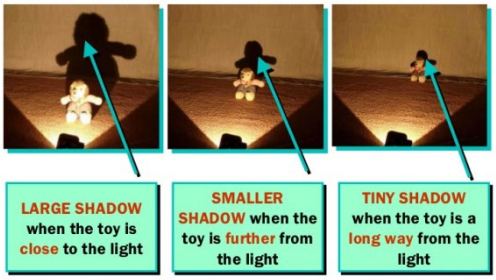
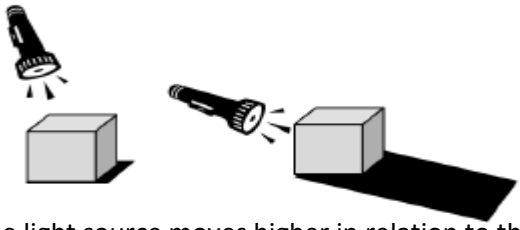
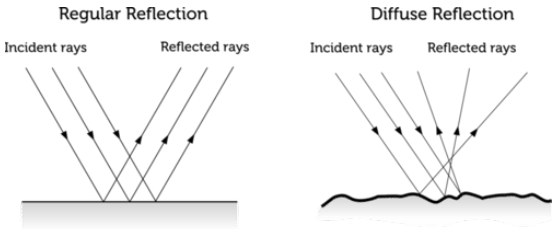
0 Light (year 3)

Prior Learning: light is an electromagnetic wave that can be seen by humans, darkness is the absence of light

POS: Light

Concept: physics transformation of energy

Facts	Vocabulary
1. Sources of light: a) natural sources – sun, stars, fire and electricity in storms b) artificial light – light bulbs, LED lights, fluorescent lighting	ultra - a **prefix** occurring originally from Latin, with the basic **meaning** "on the far side of, beyond."
2. Reflection of light: a) reflection of light is the process of sending back the light rays which falls on the surface of an object	
3. Sun a) the sun is 93 million miles away b) most of the space between the Earth and the sun is empty which allows the sun's energy to reach us easily c) the sun's energy is light and heat d) the sun helps our bodies make vitamin D which helps us to have strong bones and teeth.	
4. Danger from the sun: a) ultraviolet light - is a form of **radiation** which is not visible to the human eye. b) sunburn - ultraviolet rays can burn our skin cells, the skin gets red and feels warm. c) 80 percent of the sun's ultraviolet rays can get through on a cloudy day. d) eye damage – never directly look at the sun even with sunglasses on	
5. Formation of shadows: a) shadows are formed when light is blocked by an object	
6. Size of shadows: a) the closer an object is to a light source the bigger the shadow b) the further away from a light source the smaller the shadow c) the shortest shadows are formed at noon when the sun is highest in the sky.	As the light source moves higher in relation to the object, the shadow gets shorter. As the light source moves lower, the shadow gets longer.
Youtube: https://www.youtube.com/watch?v=KXdr1YwmNWc