

Think about what you have learned. Answer the questions below based on what you have just read.

1. Why do we have day and night?

Light travels in a straight line. This means that it travels from the sun to the earth.

Only half of the earth is facing the sun, therefore the other half does not face the sun.

This means that half does not get light.

2. Why would someone use a mirror to look into when doing their make-up?

A mirror is a smooth, flat, shiny surface, which allows light to reflect of in a regular

reflection pattern. This means you can see yourself clearly.

3. Why do you look funny when you look at your reflection in aluminum foil?

Aluminum foil is an uneven shiny surface, meaning that light reflects off it in a diffuse

pattern. This means that the light does not all reflect the same, meaning the reflected

image is distorted.

4. What do you think are the seven official colours of a rainbow?

red, orange, yellow, green, blue, indigo and violet

5. Why would a good spear fisher not throw his spear where he sees the fish?

Light bends as it passes into water. This means that the image of the fish that is seen

in the water does not actually show the true location of the fish, the fish is actually

closer than it looks. Therefore the fisherman would have to throw his spear

before the fish to hit it.