

## **17<sup>TH</sup>/04/2020 ANSWERS TO ACTIVITY 12,13,14 IN SIPRO**

### **ACTIVITY 12**

1. Refraction is the bending of light rays.
2. Reflection is the bouncing of light rays while refraction is the bending of light rays.
3. Glass blocks, air, clear water.
- 4a. Due to refraction of light. B) Light can be refracted. b. Light can be refracted.

### **ACTIVITY 13**

1. It makes swimming pools appear shallower making people to drown.
- ii). Refraction causes mirage on highways which lead to accidents.
2. A mirage is when the surface of the road appears like a pool of water on hot weather.
3. Road/iron sheets.
4. Due to refraction of light.

### **ACTIVITY 14**

1. Dispersion of light is the splitting of white light into seven different colours.
2. Refraction of light rays.
3. A rainbow is formed when white light from the sun is dispersed by rain droplets.
4. Rainbow
5. Red, Orange, Yellow and Green.
- 6a. Blue, Red, Green. b) Yellow, white
7. M – Red, P – Yellow, S – Violet.

### **SOMETHING FOR YOU**

A. Recombination is where the seven colours of the spectrum are combined to get white light. White light enables us to see in everyday life.

B. A prism is any transparent glass material that can allow light rays to pass through them.

There are types of prisms eg rectangular glass prism (sipro page 71 showing glass block) and triangular glass prism (sipro page 73 having 7 colours ROYGBIV of the spectrum).