Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 8th of 2nd Term

Unit 9 – Light(2)

✓ **Complete the following activities using the textbook or other appropriate learning resources.**

Activity 9.5

You will need:- A plane mirror, a candle, a ruler

Method:-

- Place the ruler perpendicular to the mirror as shown in Figure 9.18. Place the lighted candle at the far end of the ruler.
- Observe the image of the candle formed through the plane mirror.
- Record your observations of the nature of the image in the following table.

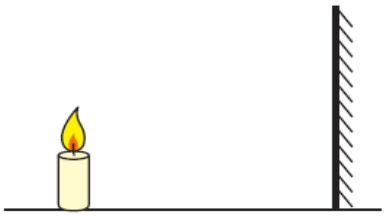

Figure 9.18 ▲ An image seen through a plane mirror

Table 9.1 ▼

Properties of the image	Observation
Can/Cannot be obtained on to a screen	
Upright / Inverted	
Size of the image	

➢ If the image can be obtained on to a screen the image is termed as ".....". If it cannot be taken on to a screen, then the image is known as " .....".

➢

Activity 9.6

You will need :- A sheet of glass, two candles which are same in size and shape, a ruler, a screen

Method :-

- Place the ruler perpendicular to the sheet of glass and place a lighted candle at the far end of the ruler as shown in figure 9.20

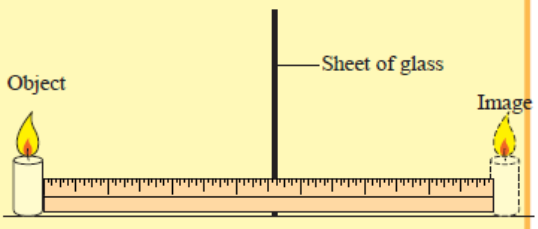

Figure 9.20▲

- Observe the image of the candle formed through the sheet of glass (It is more suitable to carry out this activity in a dark place)

- Place the other candle, where you see the image as shown in the figure.
- Compare the size of image with the candle.
- Measure the distances between the first candle and the sheet of glass (object distance) and between the second candle and the sheet of glass (image distance)
- Record your observations in the following table.

Table 9.2

Properties of the image	Observation
Size of the image	
Distance between the first candle and the sheet of glass	
Distance between the second candle and the sheet of glass	

➢ Write down the features of an image formed by a plane mirror

- .....
- .....
- .....
- .....
- .....
- .....

Lateral Inversion

Activity 9.7

You will need :- A plane mirror, letters O, B, D and P (Write letters on a paper).

Method :- Place each letter cut from a cardboard sheet in front of the plane mirror and observe.

Figure 9.22 (a)

➢ Phenomenon of inversing right and left sides of an object, when observed through a plane mirror is known as .....

Assignment 9.3

Tabulate the letters of english alphabet as those which can be identified as laterally inverted and cannot be identified as laterally inverted.