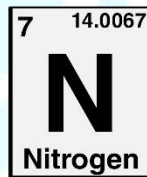
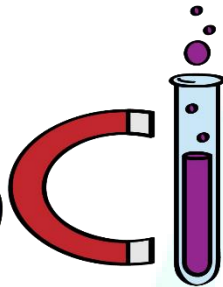
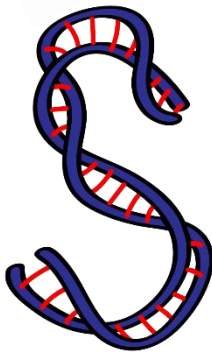




ASPIRE
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 4

Term 2, Week 11

ASPIRE

INTERNATIONAL SCHOOL

Name:

Class:

Unit 5 Worksheet

1) Match:

Word	Meaning
1- Proof	A line that light travels in. 5
2- Asteroid	Movement of a body in space around a larger body. 6
3- Reflect	A rocky mass that orbits the sun. 2
4- Absorb	Scientific evidence that something is true. 1
5- Ray	The action of light bouncing off a surface. 3
6- Orbit	To take in a substance. 4

2) Choose:

lengthen disappear appears towards shorten spins away from likes

a- The Sun appears to move across the sky every day.

b- Shadows shorten from early morning to midday.

c- Shadows lengthen towards evening.

d- The Earth spins on its axis.

e- The side of the Earth facing towards the Sun has day.

f- The side of the Earth facing away from the Sun has night.

5)



a- In the picture the Sun is shining from the top left corner. Draw rays to show how Ben sees Madame Poirot's head. Label the arriving ray and the reflected ray.

b- On the picture, draw rays to show how Madame Poirot sees Ben's camera. Label the arriving ray and the reflected ray.

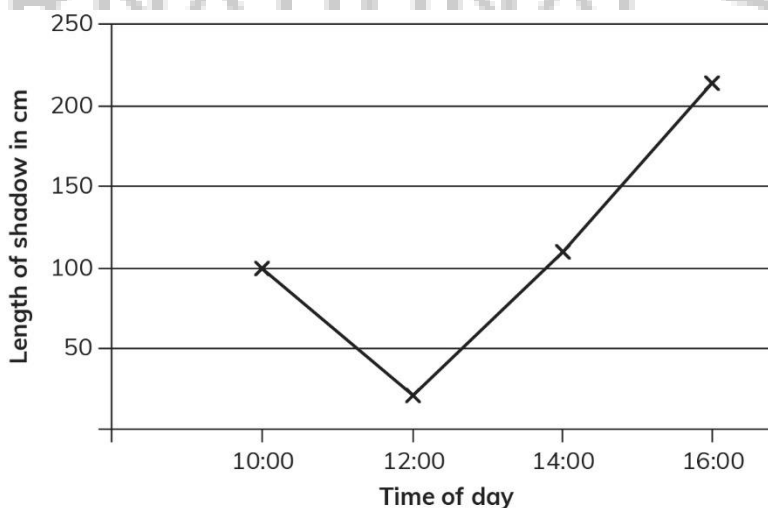
6) Viola, Sophie and Shruti like to sit on a bench under a palm tree during school breaks.

The girls measured the length of the shadow cast by the palm tree at different times of the day.

Here are their results:

Time of day	10:00	12:00	14:00	16:00
Length of shadow in cm	100	20	110	210

a- Record the results as a dot-to-dot graph.



In the morning the shadow became **shorter**. After midday the shadow became **longer**.

c- Suggest a length of shadow for:

08:00 **between 180 and 200 cm**

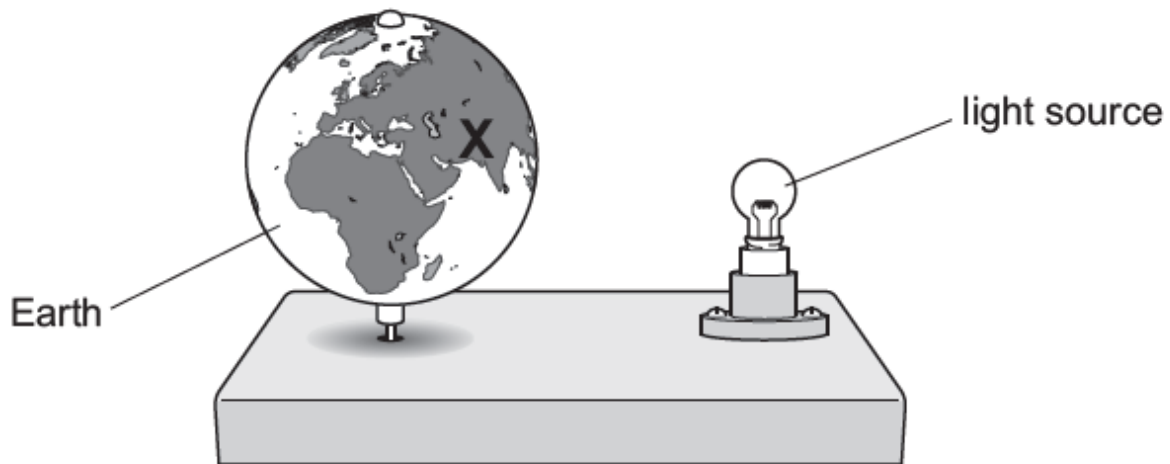
18:00 **about 300 cm**

d- The girls made their measurements in summer.

In what way do you think their measurements will be different during the winter?

In the winter the Sun appears lower in the sky so the shadows will be longer.

7) Anastasia has a model.



a- Describe how the model is used to show day and night at position X?

spin the Earth and when light is on that part of the Earth it is day and when light is not on that part of the Earth it is night

8) Youssef stands outside. It is morning and the time is 08:00 Hassan draws around the shadow Youssef makes.



Youssef goes outside again at 11:00 Draw the outline of the shadow Youssef makes now.

