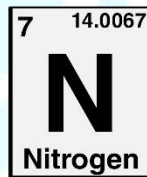
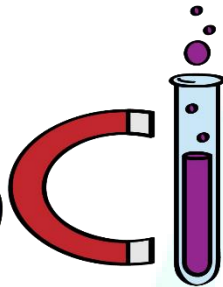
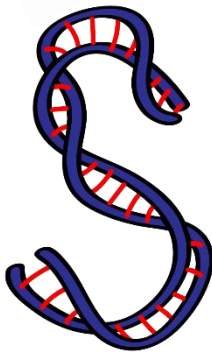




ASPIRE
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 4

Term 2, Week 11

ASPIRE

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Name:

Class:

Unit 5 Worksheet

1) Match:

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

2) Choose:

lengthen disappear appears towards shorten spins away from likes

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

b- Shadows _____ from early morning to midday.

c- Shadows _____ towards evening.

d- The Earth _____ on its axis.

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

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



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.

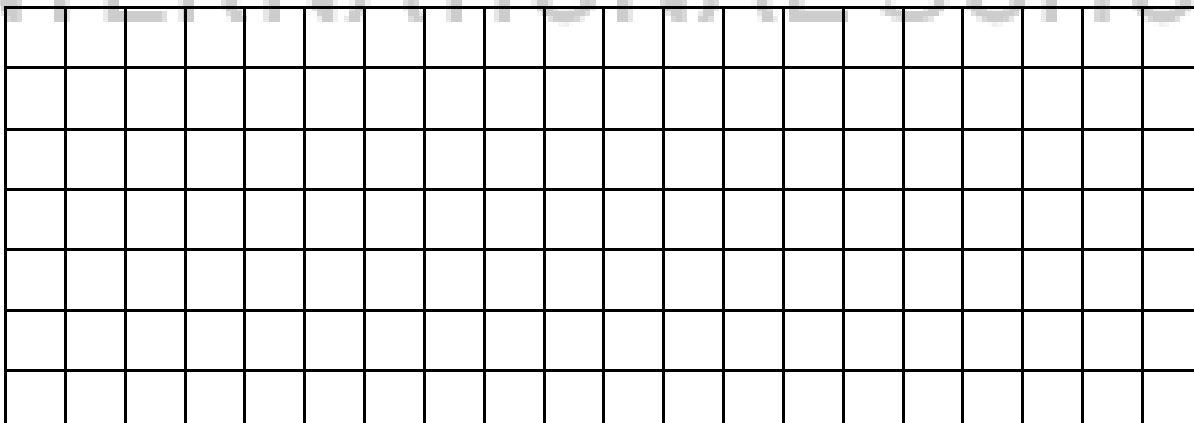
6) Viola, Sophie and Shruti like to sit on a bench under a palm tree during school breaks.

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.

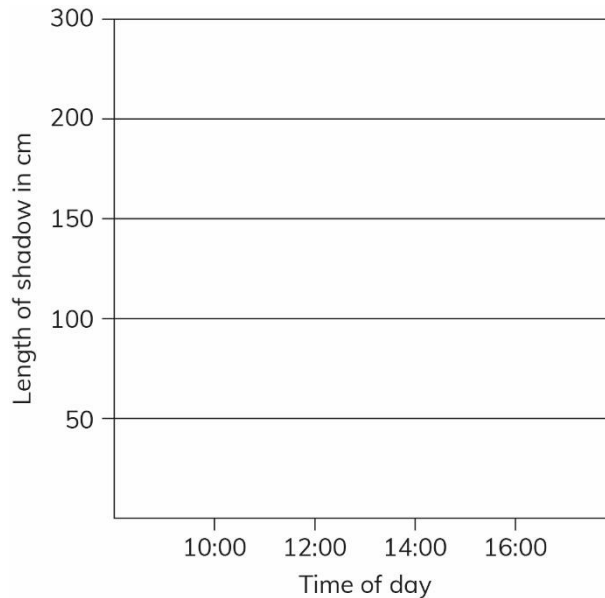


b- Complete:

In the morning the shadow became _____. After midday the shadow became _____.

Help sheet

Use the axes below to help you draw the graph. Give the graph a suitable title.



c- Suggest a length of shadow for:

08:00 _____

18:00 _____

d- The girls made their measurements in summer.

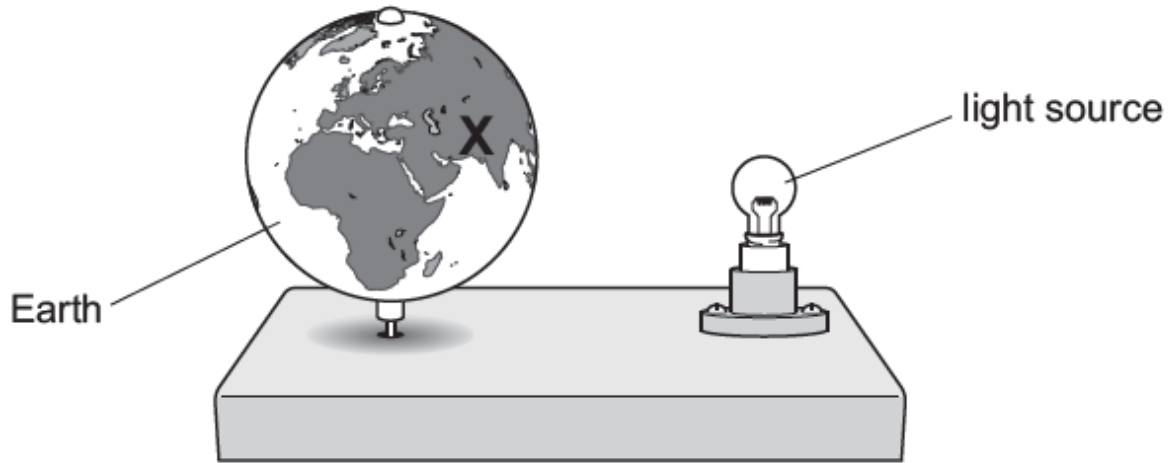
In what way do you think their measurements will be different during the winter?



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7) Anastasia has a model.



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

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.

