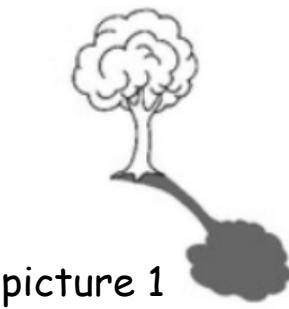


Date: _____

Chapter 9, Practice Worksheet (9.B.3)

1. Shadows are formed when light is blocked.

In the pictures below, you have 2 different shadows.



picture 1



picture 2

a. Draw the Sun's position in each picture.

b. Describe the shadows in each picture in terms of length and position.

Picture 1: _____

Picture 2: _____

c. Predict the time in picture 2. _____

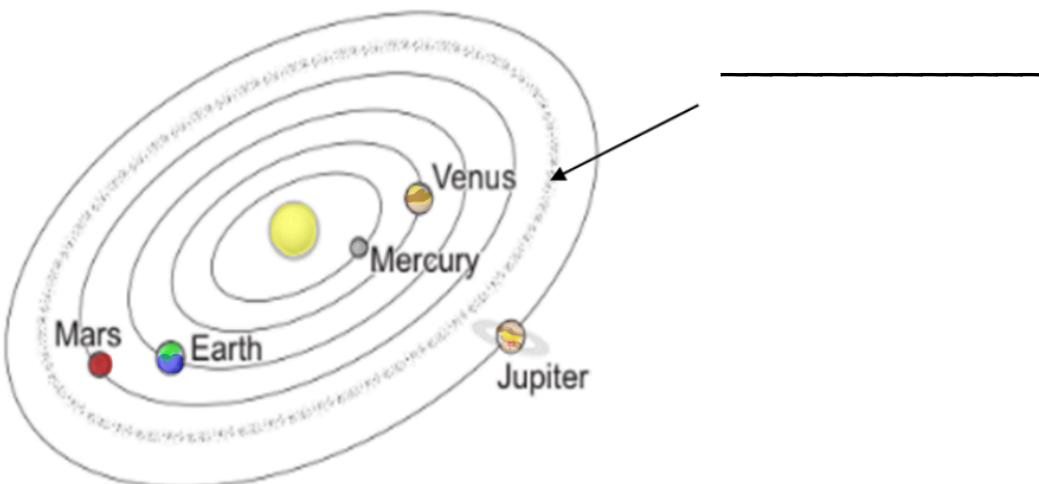
d. If the time in picture 1 was 7 o'clock in the **evening**.

Draw the shadow and the position of the Sun

at 7 o'clock in the **morning**.



2. The diagram shows parts of our Solar System.



a. Label the object the arrow points at.

b. Write the name of the object which all planets are orbiting.

c. Three planets are missing from this diagram of the Solar System.

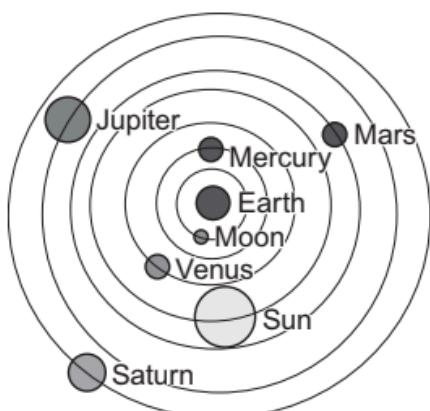
Write down the names of two of these missing planets.

3. Hassan is learning about the Solar System.

He finds this model on the internet.

Hassan says this model is wrong.

Write down **one** reason why Hassan is correct.



4. Venus, Mars and Earth have day and night.

Explain why these planets have day and night.

5. Tick (✓) if the statement is True or False.

	True	False
The moon is a planet.		
We have 9 planets in our Solar System.		
Our solar system is a part of the Milky Way galaxy.		
There are billions of galaxies in our universe.		
The planets revolve around the Earth.		

Q6. Robo and Izzy are having a conversation about the Sun.

Robo



The Sun moves across
the sky, because Earth rotates
around the sun.

Izzy



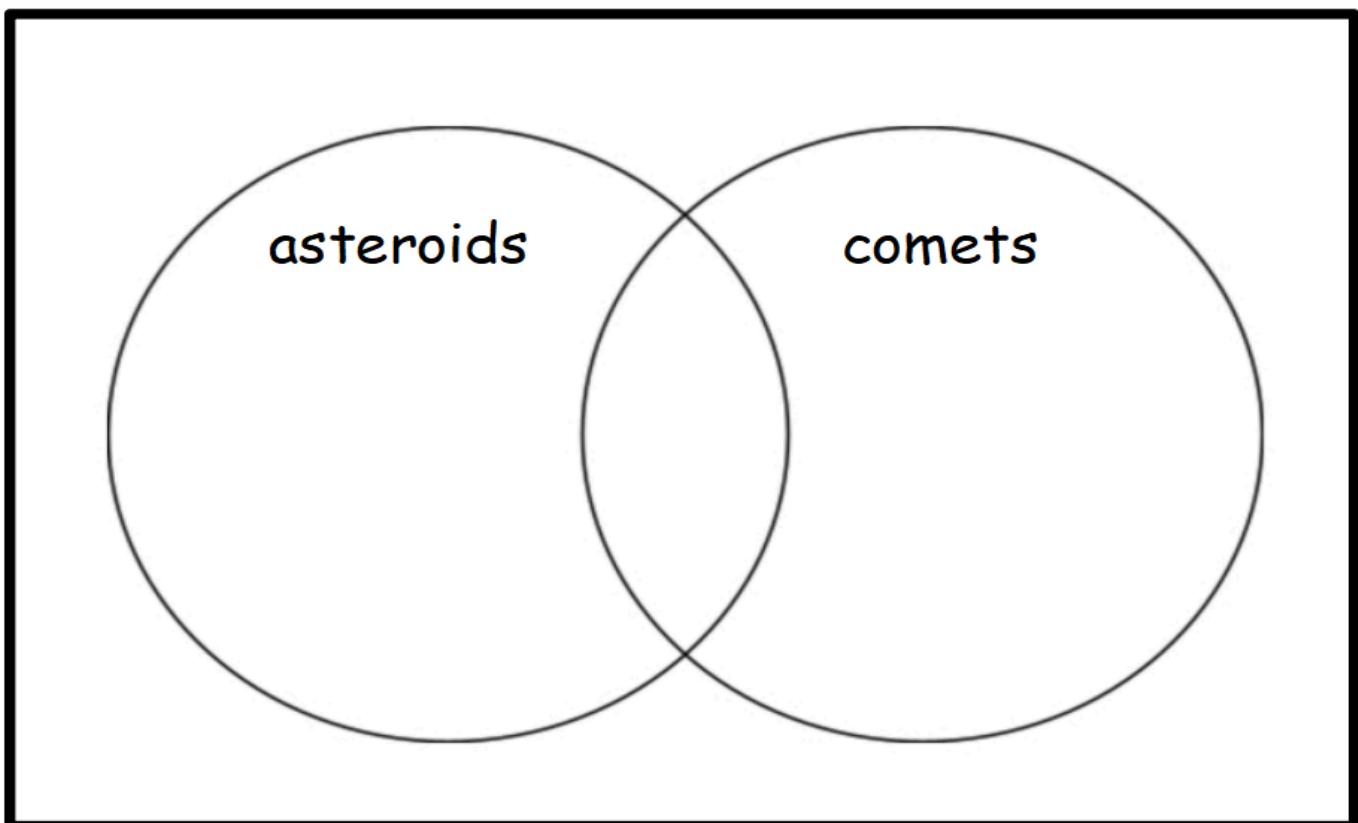
The Sun appears to
move because the
Earth is spinning on its
axis.

- Circle the name of the student who is correct.

7. Our Solar System is made up of stars and planets and other objects like asteroids and comets.

Use the words below to fill in the **Venn diagram** and compare the objects.

lumps of ice	rock	bright tails	hot gases	dust	uneven shapes	smaller than planets
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8. Fill in the blanks.

_____ : large objects that move around a star

_____ : imaginary line that goes through the centre of an object, about which the object spins

_____ : Systems that contain a star and objects like planets, asteroids and comets moving around it

_____ : planetary system made up of the Sun and objects that move around it

_____ : lumps of ice dust and rock that move around the Sun

_____ : small, rocky objects that move around the Sun