How to Make a Sundial

What you need:

- crayons
- paper plate
- sharp pencil
- thumb tacks
- ruler
- plastic straw

What to do:

- 1. Use the sharp pencil to poke a hole through the very centre of the plate.
- 2. Put the plate upside down.
- 3. Write the number 12 on the edge of the plate with a crayon.
- 4. Using the ruler as a guide, draw a straight line from the number 12 to the hole in the centre of the plate.
- 5. On a sunny day, take the plate outside at noon (12:00 pm).
- 6. Put the plate on the ground and poke the straw through the hole.
- 7. Turn the plate so that the shadow of the straw falls along the line to the number 12.
- 8. Using your thumb tacks, fasten the plate to the ground.
- 9. One hour later, at one o'clock, check the position of the shadow along the edge of the plate and write the number 1 on that spot.
- 10. Use the positions of the 12 and 1 to predict the positions of the other numbers on the sundial.
- 11. The next day, take your sundial out and you will be able to tell the time without a clock.



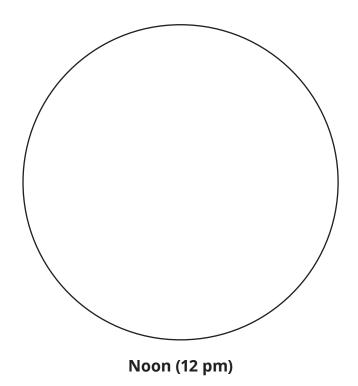
Sundial	Observation -	_ Worksheet

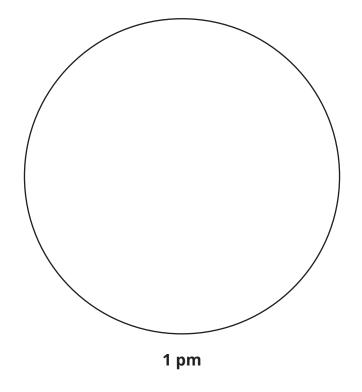
Name _____

Date _____

Sundial Observation Sheet

Draw a picture of your sundial and the shadow it creates at 12 pm and again at 1 pm.





1. What happened to the shadow of the straw?

2.	Why do you	think this	happened?
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3. Predict where you think the shadow will be at 2 pm.