**Work in teams of 3 or 4. Decide who is going to work on each task. You will get credit for neatness and accuracy. Materials and sources of information will be provided.**

*Learning outcome:*

To be able to describe the solar system and why the earth has day and night.

**THE SOLAR SYSTEM**

2. Use the information you found in 1 and a suitable scale to make a model to show the orbits of the planets.

7. Make a table to show when and where these scientists lived: *Ptolemy, Alhazen, Galileo* and *Copernicus*?

8. What did the scientists named in 7 believe about the solar system?

3. Find out the differences between a *star*, a *planet*, a *dwarf planet* and a *moon.*

5. Find out the names of 10 different moons and show where they are in a table.

4. Find out what a *mnemonic* is. Make one as an easy way of remembering the order of the planets out from the sun.

10. Using a suitable scale, draw the diameters of the sun and the planets.

9. Find a way to use a model of the sun and the rotating earth to explain to the class why we have night and day.

6. What is a *geocentric model* and what is a *heliocentric model* of the solar system ?

1. Find out what the word *‘orbit’* means and in a neat table show how far each planet in our solar system is from the sun.

11. The Sun, Earth and Moon are *‘approximately spherical bodies.’* Note down what this means and be ready to present it to the class.