Name: ..... **Form:** .....

Based on **pages 4 and 5** of *Earth and beyond*

The scale of the Solar System

Try this...

1. Here are the distances of the orbit of each planet from the Sun. The figures are in millions of kilometres.

Planet	Distance from the Sun
Mercury	58
Venus	108
Earth	150
Mars	228
Jupiter	778
Saturn	1,427
Uranus	2,870
Neptune	4,497
Pluto	5,900

2. You can see how these distances compare by using a scale of one centimetre to every million kilometres and having people stand apart at these distances.

3. You will need an open space like a playground or sportsfield.

4. Place a person or object in the centre of this open space. This represents the Sun. Now arrange other people in a line at the different planetary distances.

5. When everyone is in place ask them all to take three steps in the same direction as if they were walking in a circle round the person who is the Sun.

Looking at the results.

6. Describe how the 'planets' are arranged in their orbits.

✎ .....

✎ .....

7. Describe how the 'planets' move round the Sun.

✎ .....

✎ .....