



Name: Form:

Based on pages 18 and 19 of *Earth and beyond*

The sizes of the planets

Try this...

1. Make a scale model of the planets in the Solar System by comparing each planet with the size of the Earth. Using this scale, if Earth = 1, a planet about half the size of the Earth is 0.5 and a planet ten times the size of the Earth is 10. When you make your model, if you choose the size of the Earth to be 2cm, then a planet half its size will be 1cm and a planet ten times its size will be 20cm across.

The table below shows how the size of the planets compares to Earth when the scale of the Earth = 1. Chose a different size scale for your Earth. Enter it in the table. Work out the sizes of the other models and enter them in the table.

Planet Size	Size compared to Earth	Size of model (cm)
Mercury	0.4	
Venus	1	
Earth	1	
Mars	0.5	
Jupiter	11	
Saturn	10	
Uranus	4	
Neptune	4	
Pluto	0.2	

2. Make a paper disc for each planet and use the pictures in your book to help you colour it in.

3. Arrange the planets in order.

4. Look for a pattern in the sizes of the planet and describe what you see.



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5. The Sun is 109 times the size of the Earth. How can you make a model of it to complete your Solar System? (use the back of this sheet if you need more space)



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