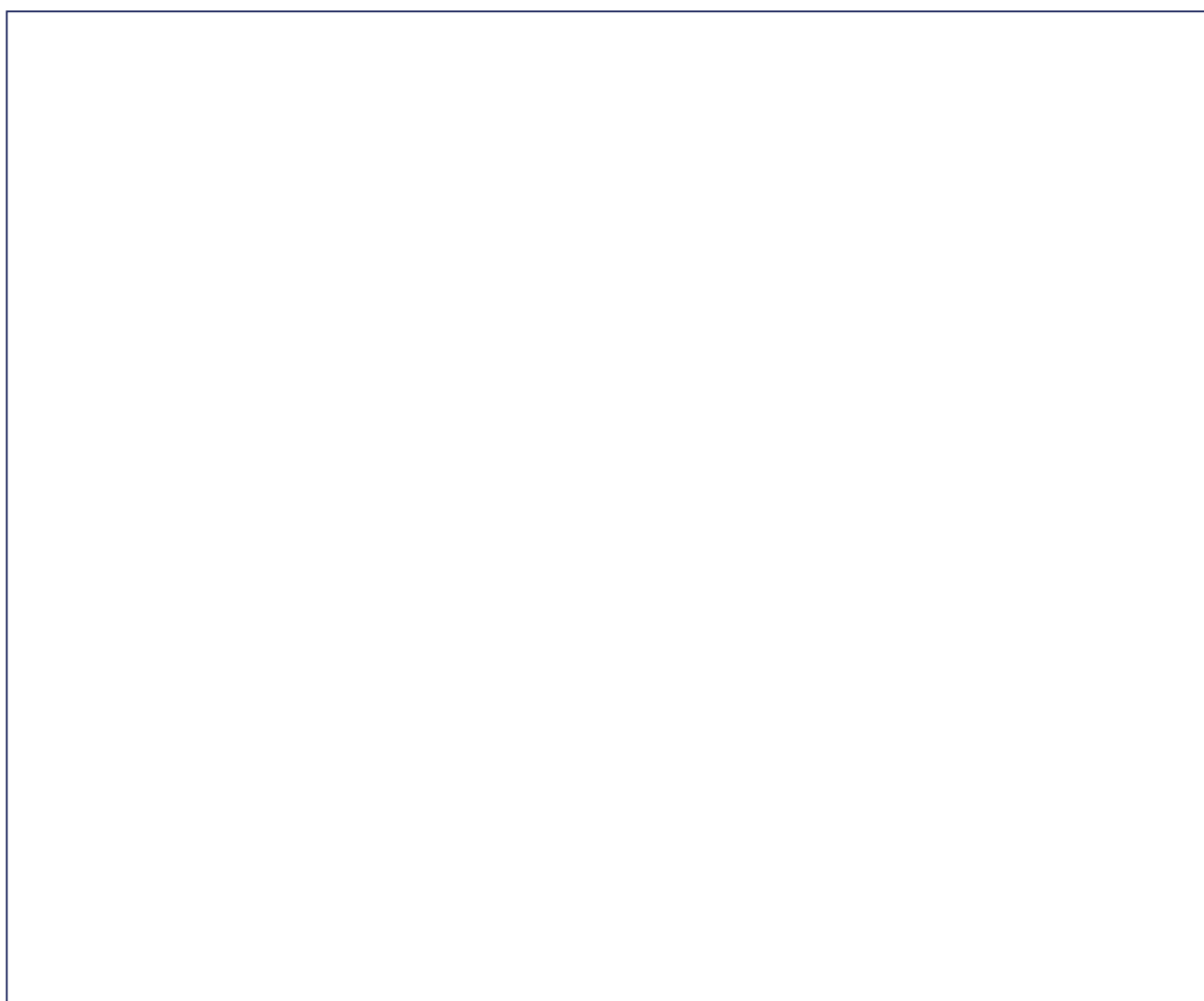


Nova's Guide to the Solar System

Learning objective: To identify and illustrate the position of the planets in the Solar System in relation to the Sun, and understand the concept of a heliocentric model.

Follow the drawing prompts carefully to build your own model of the Solar System. Use your scientific knowledge to ensure the planets are in the correct order from the Sun. Once your drawing is complete, use the word bank to label your diagram accurately.

Draw: Create a landscape-oriented diagram showing the Solar System. Use a large yellow circle on the left for the Sun. Draw eight distinct, circular or elliptical paths (orbits) emanating from the Sun. Place the planets along these orbits in the correct order: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Use different colours to represent the characteristics of the planets (e.g., reddish for Mars, blue for Neptune). Include a small, grey, cratered sphere orbiting the Earth to represent the Moon.



Label words: Sun · Mercury · Venus · Earth · Mars · Jupiter · Saturn · Uranus · Neptune · Orbit

Steps:

1. Step 1: Draw the Sun on the far left of your page. Why is it important to draw the Sun much larger than the planets in your diagram?
2. Step 2: Draw the eight planets in their correct order from the Sun. Which four planets are known as the

'Gas Giants'?

3. Step 3: Draw elliptical lines around the Sun to show the path each planet takes. What is the scientific name for this path?

4. Step 4: Label your diagram using the words from the word bank. Between which two planets is the Asteroid Belt located?

5. Step 5: Add a small moon orbiting the Earth. Explain why the Moon does not fly away into space.