

# Planets Suite

1. (a) Which planet is fourth from the Sun? Circle the correct answer.

Earth      Jupiter      Mars      Venus

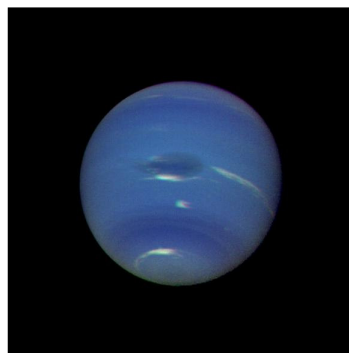
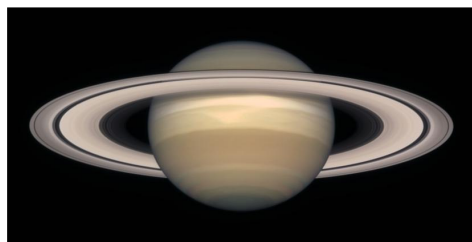
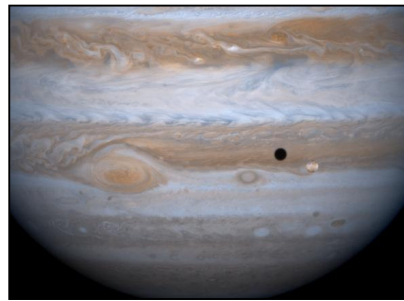
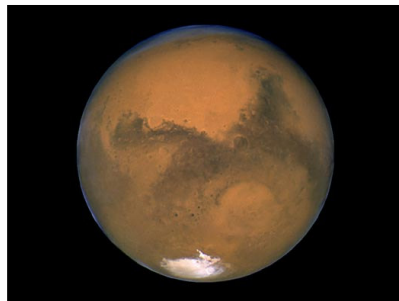
(b) Which is the Solar System's largest planet? Circle the correct answer.

Earth      Jupiter      Mars      Venus

(c) Which *two* planets are similar in size? Circle the correct answer.

Earth & Venus      Mars & Jupiter      Venus & Jupiter

2. Identify the planets from their photographs. Write the name of each planet next to each photograph.



*Images courtesy of NASA*

3. Many astronomers believe that Pluto should not be included in the list of planets. State three reasons to say why you would agree with the astronomers.

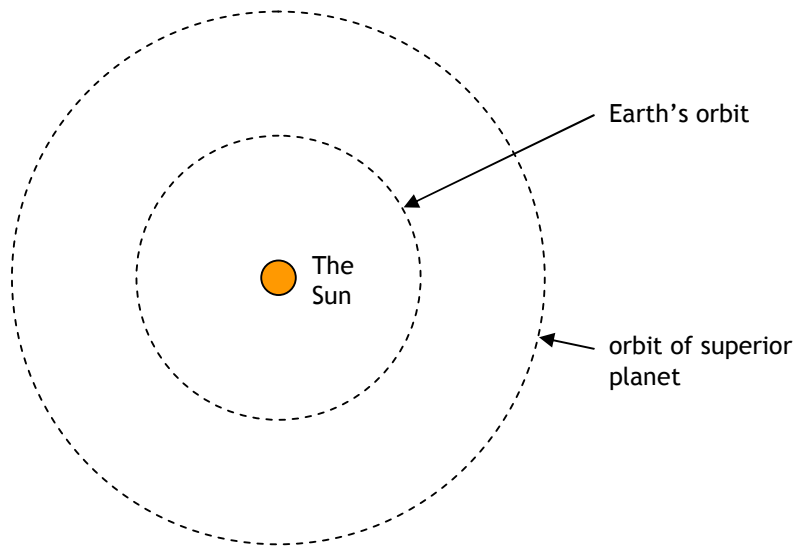
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4. The diagram shows the orbit of the Earth and the orbit of a superior planet around the Sun.



(a) What is meant by a *superior* planet?

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(b) On the diagram, show the positions of the Earth and the superior planet when the planet is at *opposition*. Use the letters E and SP.

(c) Superior planets are best observed when they are at, or close to, opposition? Why is this?

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5. Write down two key facts about the surfaces of:

(a) Io, the small satellite of Jupiter

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(b) Titan, the large moon orbiting Saturn

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(c) Miranda, the unusual satellite of Uranus

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(d) Triton, one of the two major moons orbiting Neptune

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