

Boffins 8

100M. Fill in the missing words to make the sentences make good scientific sense.

- 1) Our is made up of all of the planets, comets and asteroids that orbit our Sun.
- 2) An is the path the planets, the Moon and other objects follow through space, as they move around another object.
- 3) The Sun's holds the planets in their orbits around it.
- 4) The planets, stars, etc., are all in shape.
- 5) The Sun is really a It just looks bigger to us because it is closer than the others in the sky.

2 Points for each correct answer.

Points:

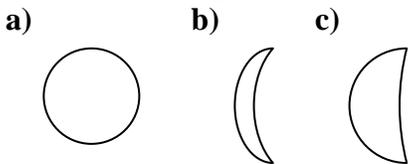
Javelin Name the planets of the Solar System, in their correct order from the Sun.

200m

- 1) How many days does it take the Moon to orbit the Earth?
- 2) How many days does it take for the Earth to orbit the Sun?

200M. Answer these questions:

- 3) What is the name of Earth's natural satellite? (Not one of the manufactured ones!)
- 4) Why can astronauts jump much higher on the Moon than they can on Earth?
- 5) Why do we always see one side of the Moon?
- 6) Name these phases of the Moon:



- 7) Why can't you see a new moon?
- 8) Does the Moon ever become visible during the day?
- 9) Which large, gas-giant planet do you think this is?



- 10) Which large planet do you think this is?



One point for each correct answer.

Points:

Discuss Fill in the missing words to make the sentences make scientific sense.

- 1) The Earth is a large sphere, which spins on its This is an imaginary line going through the centre of the Earth, from the North to South
- 2) Our Earth rotates on its axis once every hours.
- 3) When we are facing the Sun, we have
- 4) The other side of the Earth is in facing away from the Sun and is in darkness. We call this
- 5) The Earth's axis is tilted at about degrees.
- 6) The Sun appears to move across the sky, from morning to evening. It is really the that is moving.
- 7) The Sun seems to rise in the and set in the
- 8) Shadows are longer in the because the Sun appears lower in the sky.
- 9) Shadows are short at because the Sun has reached its highest point in the sky.
- 10) In this country, the Sun always appears to move across the sky slightly to the of where we are. It appears overhead in the tropical regions, near to the equator.

One point for each correct sentence.

Points:

Weight Lifting Answer only one of these questions.

- 1) Why do we have day and night? (2 points)
- 2) What are the two ways in which the Earth is moving? (4 points)
- 3) Why does the Moon seem to change shape as it orbits the Earth? (6 points)
- 4) In which season would you find the longest shadows? Why? (8 points)
- 5) Give two reasons why it is warmer in summer than it is in winter. (10 points)

Points:

Steeple Chase Answer the questions. If you get an answer wrong, you must stop marking! Take care!

- 1) When the northern half of the Earth is tilted towards the Sun, the season is
- 2) The Sun is lower in the sky during the season of
- 3) Name the object at the centre of our Solar System.
- 4) What does the Moon orbit around?
- 5) How long does it take for Earth to revolve around the Sun?
- 6) What is the name for a collection of stars?
- 7) What is the name for the collection of stars we belong to?
- 8) Which is the third planet from the Sun?
- 9) Which two planets are nearer the Sun than the Earth?
- 10) Which planet is a) the largest, b) the smallest in our Solar System?

One point for each correct answer.

Points:

Total Points: