

Space travel

Test yourself

4-5

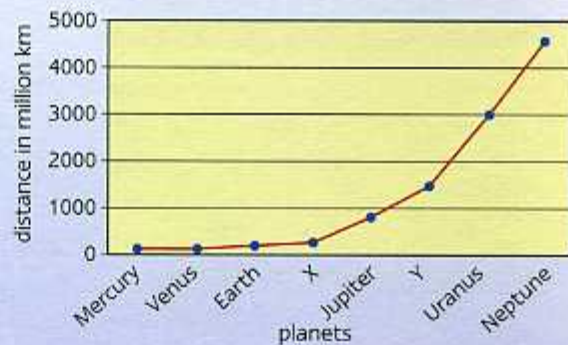
- a** On the graph opposite name the two missing planets, X and Y.

b Why will space travel to Jupiter and beyond be a difficult challenge?

c If man did manage to travel to another planet, what difficulties would they find in surviving?

d Earth is becoming over-populated, and fossil fuels are increasingly difficult to source and unable to meet the needs of the population. Is it realistic for us to be looking for another planet to live on in our galaxy? Explain your reasons.

FIGURE 7: Graph showing the distance of planets from the Sun.



Creative

5-6

- Many young children would like the opportunity to become astronauts when they grow up! Design an application form to test prospective candidates who wish to fulfil their lifetime dream. Your questions should be based on **ten** facts about the Solar System and space, and must include questions about the need for and challenges of space travel (you could consider time problems and problems relating to survival in space).

Digital

7-8

- Research on the NASA website:

 - The speed that rockets have to go to escape the Earth's gravitational field on a space mission.
 - The orbit speed of satellites providing TV signals for our homes.

On Earth we have maximum speed signs for travelling on our roads. Present your research as a minimum speed sign for astronauts! Use cartoon images from the Internet to make your sign imaginative and informative.

FIGURE 8: A spacecraft needs to overcome Earth's gravity to be launched into space.

