
1. What do you think the earth looks like? Make a drawing of the earth in your notebook. On your drawing show where you are. Take a look at your friend's drawings too.

Ans. I think the earth is round.



2. If the earth is round like a globe, how is that we do not fall off?

Ans. It is due to the earth's gravitational force. Earth attracts everything towards its Centre. That is why we do not fall off.

3. Do not people in Argentina stand upside down?

Ans. No, they are not. They are also standing upright. There is actually no 'up' and 'down' on the earth. It is relative.

4. Can you think why Sunita's hair were standing?

Ans. We know that on earth, our hair remain in downwards portion due to earth's gravitational force. But in space, there is no such gravitational force. That is why Sunita's hair were standing.

5. Look at Sunita's photographs and the dates written on each of them. Write what all is happening and when?

1 / 6

Ans. 9-12-2006 The spacecraft is taking off.

11-12-2006 Astronauts are floating inside the spacecraft.

11-12-2006 Astronauts are taking off.

13-12-2006 Sunita is working.

16-12-2006 Sunita is roaming outside the spacecraft.

6. Can you now say why Sunita's hair kept standing?

Ans. Sunita's hair kept standing because there is no gravitational pull in the space.

7. Think why water flows downwards on any slope? On mountain too water flows downwards, not upwards?

Ans. Water flows downwards on any slope or on mountains due to the gravitational force acting upon it.

8. Take a 5-rupee coin and a small piece of paper. The paper should be about one-fifth the size of the coin.

1. Hold the coin in one hand and the paper in the other. Drop them at the same time. What happened.

2. Now place the tiny paper on the coin and drop them. What happened this time? Surprised?

Ans. 1. Both fall down but the coin has fallen quickly.

2. Now, both fall down together, at the same time.

9. To play this you will need a small stone, a bigger stone, a thick roll of paper (which can be made by with layers of paper), mouse and an elephant made of paper.

Take a string about 2 feet long.

At one end of the string tie the small stone. Stick or tie the mouse to the stone.

2 / 6

Put the string into the roll of paper.

At the other end of the string tie the bigger stone and stick the elephant.

Hold the roll of paper and move your hand to rotate the small stone.

Who is pulling whom? You will be surprised! The mouse lifts the elephant!

How did this magic happen?

Ans. When the small stone (mouse) whirls, it create a force due to which the bigger stone (elephant) is pulled up.

10. Can you see India?

Ans. Yes, but not so clearly.

11. Can you recognize any other place.

Ans. It is very difficult to recognize any other place exactly.

12. Where is the sea?

Ans. The blue part of the picture is sea.

13. Do you find anything similar between the globe and this picture of earth? In what way are they different?

Ans. The similarity in both the cases is the land and the sea areas can be distinguished. However, the entire land area is divided into various countries on the globe which is not so in case of this picture of the earth.

14. Do you think Sunita could make out Pakistan, Nepal and Burma separately when she saw the earth from space?

Ans. No, I do not think so.

14. Do you think Sunita could make out Pakistan, Nepal and Burma separately when she saw the earth from space?

Ans. No, I do not think so.

15. Could you find India?

3 / 6

Ans. Yes.

16. Where do you find the sea?

Ans. The blue parts of the globe are seas.

17. Which countries can you see?

Ans. I can see all countries like India, Pakistan, China, Bangladesh, Sri Lanka, Indonesia, Singapore, USA, Russia, France, Britain, Germany, Mexico etc.

18. Can you see some of the countries with which India plays cricket matches? For example: England, Australia, Pakistan, Bangladesh and South Africa.

Ans. Yes, I can see all these countries.

19. What else can you see on the globe?

Ans. Yes, I live in Delhi and I can find my state in the map.

20. Which are states next to your states.

Ans. Delhi is an between Haryana and Uttar Pradesh.

21. Have you been to any other state?

Ans. Yes. I have been to many states like Uttar Pradesh, Haryana, Punjab, Himachal Pradesh etc.

22. Shahmir thinks that there are lines drawn on the ground, between the states. What do you think?

Ans. There is no such line made on the ground, between the states. It's all on the map only.

23. Why don't you try to do the same with a coin? How many centimetres away from the

4 / 6

eye did you keep the coin to hide the moon?

Ans. To hide the moon completely, the coin has to kept at 25 centimetres away from the eye.
