

Do the Research

Let's boggle our brains

Sub : Science

Grade: IX

Date:

Name:

ID No.....

Topic: Gravitation

Directions: Research the topic indicated above and answer the questions below.

1. You and your friends are sitting very close to each other. Both of you are attracting each other because of the gravitational force. Yet both of you remain sitting at the same position; why so? Give reason.

2. Rahul buys a few grams of gold at the poles as per the instruction of his friend. He hands over the same when he meets his friend at the equator. Will his friend agree with the weight of the gold purchased? If not, why?

3. You find your mass to be 40 kg on a weighing machine. Is your mass more or less than 40 kg? Explain.

4. A ball thrown vertically upwards, returns to the thrower after 6 seconds. Find the position of the ball after 4 seconds.

5. How does the force of attraction between the two bodies depend upon their masses and distance between them? A student thought that two bricks tied together would fall faster than a single one under the action of gravity. Do you agree with his hypothesis or not? Comment.
