

# Smart Writeup's

Practice. Learn. Succeed

**Sub : Science**

**Grade: IX**

**Date: .....**

**Name: .....**

**ID No.....**

1. Universal law of gravitation states that every object exerts a gravitational force on every other object. If this is true, then why does a book placed on the table, not move towards you?

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2. Define acceleration due to gravity. What is its SI unit?

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3. What is the effect on acceleration due to gravity as we move

- (i) from the poles towards the equator?
- (ii) from the earth's surface towards a hill?
- (iii) from the earth's surface to a mine?

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4. Can we apply Newton's third law of motion to the gravitational force? Explain.

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