



Class: IX

Subject: Physics

Study Plan

Topic: Gravitation

| Slots | Subtopic | Refer to |
|-------|---|--|
| 1 | <p>During Class:</p> <ul style="list-style-type: none"> Gravitational force - the force that binds the whole universe together The Universal law of gravitation Definition of Universal gravitational constant (G) Importance of the Universal law of Gravitation Example 1, 3 and 5 of page 84-85 <p>After Class:</p> <ul style="list-style-type: none"> Attempt marked questions from Section B and C (First Check Your Progress) | <p>Chapter 4, Page 82 - 85</p> <p>Textbook page 86</p> |
| 2. | <p>Before Class:</p> <p>Please watch the video provided in the given link. https://www.youtube.com/watch?v=mJxsj51d-Pk</p> <p>During Class:</p> <ul style="list-style-type: none"> Free fall with some practical examples Understanding acceleration due to gravity (g), its variation and calculation of its value Robert Boyle's experiment Relation between g and G Difference between gravity and gravitation Example 6 and 7 on page 90 <p>After Class:</p> <ul style="list-style-type: none"> Attempt marked questions from Section B and C (Second Check Your Progress). | <p>Chapter 4 - Page 87-89</p> <p>Textbook page 91</p> |

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|---|--|--------------------------|
| 3 | During Class: <ul style="list-style-type: none"> Equation of motion for freely falling bodies. Understanding mass, its characteristics and units involved Understanding weight, its characteristics and units involved Gravitational units of force Understanding how mass and weight are different from each other Example number - 9,10,12 16 After class: <ul style="list-style-type: none"> Attempt marked questions | Chapter 4, page 91-92 |
| 4 | During Class: <ul style="list-style-type: none"> Experiment 3, Simple Pendulum | Refer the sheet provided |
| 5 | During Class: <ul style="list-style-type: none"> Doubts discussion | |

Note:

- In case of any doubts please feel free to write to vermarohit211@gmail.com and mukesh.chawla.shk@gmail.com