

**Pre DELHI PUBLIC SCHOOL, JAMMU**  
**HOLIDAYS HOMEWORK**  
**SESSION 2021-22**  
**CLASS XI**  
**SUBJECT: PHYSICS**

**Q1- Prepare a video of Demonstration project on any one of the following topics from XI class curriculum.**

- (i) To demonstrate that a force called centripetal force is required by a body which is moving in a circle with a uniform speed.
- (ii) To demonstrate conservation of linear momentum.
- (iii) To demonstrate interconversion of potential and kinetic energy.
- (iv) To demonstrate free oscillations of different vibrating systems e.g. simple pendulum, loaded spring and floating test tube.
- (v) To demonstrate the effect of angle of launch on the range of projectile.
- (vi) To demonstrate longitudinal and transverse waves .
- (vii) To make a paper scale of given least count 0.2cm and 0.5cm.
- (viii) To demonstrate whether time period of a simple pendulum depends on factors like length of string, mass of bob, angle through which the bob is displaced or not.

**Q2 – Prepare a Power Point Presentation on any one of the topics mentioned below:**

- ✓ Various methods of measurement of fundamental physical quantities like Mass, Length and Time
- ✓ Dimensional analysis and its uses.
- ✓ Theory of errors which should include the topics of significant figures, Types of errors and Propagation of errors.

**Note –**

1. Send your Holidays Homework by e-mail to your respective Subject Teacher by 13th of July, 2021. Your submission will carry 4 marks.( 2 marks- Subject Relevance & Research, 2 marks- Handwriting).
2. Practice for your Homework/ Project Presentation (5-6mins) to be held during virtual class after holidays. It will carry 6 marks (2 marks- Confidence, 2 marks- Subject Clarity, 2 marks- Presentation Skills).
3. The schedule for presentation will be shared later. The teacher may ask 1 or 2 questions during the presentation.

<b>Class/Section</b>	<b>Name of the Sub Teacher:</b>	<b>e-mail ID</b>
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