Assessment Task for Stage 6: Preliminary

Subject:

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<th>Assessment Task No.</th>
<th>Date:</th>
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<td>30th March, 2016</td>
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THIS TASK NOTIFICATION CAN BE FOUND ON THE COLLEGE WEBSITE UNDER THE LEARNING AND TEACHING TAB OR IN YOUR GOOGLE CLASSROOM

Instructions

- This is an in-class task which will be completed during your lesson in period 2.
- You will be given 50 minutes to complete the task.
- Penalty for non attendance
  - On the date of the assessment will immediately receive a 50% mark penalty of the achieved mark pending Illness/Misadventure certification.
  - On the day following the assessment will receive a zero mark pending Illness/Misadventure certification.

Outcomes being Assessed

- P6 describes the forces acting on an object which causes changes in its motion
- P7 describes the effects of energy transfers and energy transformations
- P13 identifies appropriate terminology and reporting styles to communicate information and understanding in physics
- P14 draws valid conclusions from gathered data and information
1. **Description of the Task**

- You are asked to complete an in-class test on the topic “Moving About”
- The test will take 50 Minutes and will consist of multiple choice and short response questions.
- You will be provided with an HSC formulae and data sheet.
- You will need to bring the following equipment:
  - Calculator, pen, pencil, eraser, ruler, protractor

2. **Classroom Learning:**

Students will be prepared to effectively complete this task through:

**Learning to (skills)**
- construct and analyse vector diagrams.
- use symbols and formulae to express relationships
- use appropriate units for physical quantities
- use a variety of pictorial representations to show relationships and present information clearly and succinctly
- construct and analyse graphs which represent motion
- analyse the forces acting on an object and its subsequent motion
- analyse situations involving collisions and transformation of energy
- identify and apply appropriate mathematical formulae and concepts
- extract information from numerical data in graphs and tables as well as from written material in all its forms
- describe and select from different strategies, those which could be used to solve a problem

**Learning about (knowledge) the following concepts:**
- displacement, speed, velocity and acceleration
- vectors
- momentum, energy, forces

**Terms used in the assessing of this task:**
- **Analyse**: Identify components and the relationship between them; draw out and relate implications
- **Calculate**: Ascertain/determine from given facts, figures or information
- **Construct**: Make; build; put together items or arguments
- **Explain**: Relate cause and effect; make the relationships between things evident