Assessment Task for Stage 6: Preliminary

Subject: Physics

This assessment task can be found on the college website under the learning and teaching tab.

Assessment Task No. 1 Date: 1st April 2015 Weighting 15%

Submission Instructions

- This is an in-class task which will be completed during your lesson in period 2.
- 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 55 Minutes and will consist of multiple choice and short response questions.
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 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 and spoken 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, impulse, 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
- **Deduce** : Draw conclusions
- **Describe** : Provide characteristics and features
- **Discuss** : Identify issues and provide points for and/or against
- **Explain** : Relate cause and effect; make the relationships between things evident
- **Identify** : Recognise and name
- **Recall** : Present remembered ideas, facts or experiences