

Coonabarabran High School Assessment Notification

Subject: Year 7 Science	Date of Notification: 23/8/21
Assessment Task 4: First Hand Investigation - Forces	Due date: Term 3 Week 10
Weighting: 25%	Teacher: S Moore, H Deasey, R Blanch

Topic: Task:

Forces

In this modified task, students will design a force meter and determine if there is a relationship between the mass of an object and the force required to pull that object across a surface.

Students will research forces and friction and design and conduct an investigation using their force meter. Students will complete their investigative report in the scaffolded booklet provided.

A marking criteria is attached to the First-Hand Investigation.

Outcomes being assessed:

Knowledge and Understanding	Skills
SC4-10PW Describes the action of unbalanced forces in everyday situations.PW1 – Changes to an object's motion is caused by unbalanced forces acting on the object.	 SC4-WS4 Students question and predict SC4-WS5.3 Students choose suitable equipment or resources for an investigation SC4-WS5.2 Students plan first-hand investigations SC4-WS6 Students conduct first-hand investigations SC4-WS7.1 Students process data and information SC4-WS7.2 Students analyse data and information
Students should be able to: Identify changes that take place when particular forces are acting. Predict the effect of unbalanced forces acting in everyday situations Analyse some everyday common situations where friction operates to oppose motion and produce heat. Investigate factors that influence the size and effect of frictional forces	Students should be able to: Make predictions based on scientific knowledge and their own observations. Propose the type of information and data that needs to be collected Locate sources of data and information Outline a logical procedure for undertaking a range of investigations to collect valid first-hand data, including fair tests. Identify in fair tests, variables to be controlled, measured and changed Describe safety guidelines Identify and select suitable equipment or resources to perform a task Work collaboratively and independently to conduct an investigation Follow a planned procedure Record observations and measurements accurately, using appropriate units Use a range of representations to organise data and calculate a mean Use scientific understanding to identify relationships and draw conclusions based on data and secondary sources Reflect on the method used to investigate a question or solve a problem