Momentum Work and Energy Unit Plan

In each of the sub units you will be expected to know the following

## Momentum and impulse

* Know how to calculate momentum and impulse using the impulse momentum equation
* Determine impulse from under a force time graph
* Understand that momentum is conserved even after an impact=law of conservation of momentum
* Apply this knowledge to situations in everyday life

## Work and Energy

* Understand that work only depends on the displacement of a single component of which the force is parallel to
* Determine work from a force-position graph
* Understand work is a transfer of energy from one form to another
* Understand and use kinematics equations to solve problems related to work and energy
* Understand that an object above the ground has gravitational potential energy and be able to calculate its value
* Apply this knowledge to situations in everyday life

## Hooke’s Law

* Do an experiment and questions related to Hooke’s Law
* Understand the potential energy of a spring based on your knowledge of Hooke’s Law

# Assessment

This unit will be assessed using 2 test, 1 Lab and 5 assignments of your choice. The first test will be on April 10th and the final test will be on April 20th

Each test will be worth 20%

The Hooke’s Law lab will be worth 10%

Assignments will be worth the other 50%

You will choose 2 assignments from Momentum, 2 Assignments from Work and Energy and 1 Assignment from Hooke’s law. Each assignment will account for 10% of your final grade.

Assignments will be due: 3 on April 10th and 3 on April 20th

Lab will be due on April 20th

**No assignments will be accepted after April 24th**