



**INTEGRATED SCIENCE
SCOPE AND SEQUENCE**

**THIRD QUARTER
S.Y. 2013-2014**

UNIT : FORCE, MOTION AND ENERGY

Content Standard:

The learner demonstrates understanding on force, motion and energy in relation to observance of safety and protection.

Performance Standard:

Learners, working in pairs, integrate their understanding of force, motion and energy in creating a clear, practical/applicable and comprehensive guide on safety and protection.

Performance Task:

Science Investigatory Project (SIP)

Mini-Task:

Blue Print of an Amusement Ride

Topics:

Force
Basic Description of Force
Types of force acting on objects
Contact and non-contact forces
Gravitational Force
Frictional Force
Newton's law of motion
Law of Inertia
Law of Acceleration
Law of Interaction
Implications of the laws of motion on safety and protection
Energy
Types of energy
Energy transformation
Potential and Kinetic Energy
Work
Heat Transfer
Simple Machines

Textbook: Integrated Science by Glencoe Philippines (Phoenix Publishing House)

References:

1. You and the Natural World- Integrated Science; L. Vengco, T. Religioso
2. Dynamic Science by Rabago, L. et al
3. Exploring Science by CDIS
4. Glencoe: General Science
5. Glencoe: Physical Science
6. Prentice Hall: The Nature of Science

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