PRIMARY CYCLE 3 – SCIENCE AND TECHNOLOGY

Material World

C. Forces and Motion

7. Combined effects of several forces on an objects
   a. Predicts the combined effect of several forces on an object at rest or an object moving in a straight line (e.g. reinforcement, opposition)

E. Techniques and instrumentation

3. Use of tools
   a. Appropriately and safely uses tools.

4. Design and manufacture of instruments, tools, machines, structures (e.g. bridges, towers), devices (e.g. water filtration device), models (e.g. glider) and simple circuits
   a. Appropriately uses terminology related to the material world

SECONDARY CYCLE 1 – SCIENCE AND TECHNOLOGY

The Technological World

B. Mechanical Engineering

1. Forces and Motion
   b. Effects of a force
      i. explains the effects of a force in a technical object (change in the motion of an object, distortion of a material).

E. Manufacturing
   a. Specifications
      i. Defines specifications as a set of constraints associated with the design of a technical object.
      ii. Evaluates a prototype or technical object based on the environments described in the specifications (human, technical, industrial, economic, physical, environmental).