GRADE 2 – SCIENCE AND TECHNOLOGY

Understanding Structures and Mechanisms: Movement

1. Assess the impact on society and the environment of simple machines and mechanisms
   1.1 assess the impact on society and the environment of simple machines that allow movement

2. Investigate mechanisms that include simple machines and enable movement;
   2.1 follow established safety procedures during science and technology investigations.
   2.3 investigate the structure and function of simple machines
   2.4 use technological problem-solving skills, and knowledge and skills acquired from previous investigations, to design, build, and test a mechanism that includes one or more simple machines
   2.5 use appropriate science and technology vocabulary, including push, pull, beside, above, wheel, axle, and inclined plane, in oral and written communication
   2.6 use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes

3. Demonstrate an understanding of movement and ways in which simple machines help to move objects.
   3.1 describe different ways in which objects move
   3.2 identify ways in which the position of an object can be changed (e.g., by pushing, by pulling, by dropping)
   3.3 identify the six basic types of simple machines – lever; inclined plane; pulley; wheel and axle, including gear; screw; and wedge and give examples of ways in which each is used in daily life to make tasks easier
   3.4 describe how each type of simple machine allows humans to move objects with less force than otherwise would be needed
   3.5 identify simple machines used in devices that move people (e.g., wheel and axle on a bicycle or a car, pulleys on an elevator, etc.)