**Energy, Machines, and Motion Course Outline**

**S8.C.2.1**  Describe energy sources, transfer of energy, or conversion of energy.

**S8.C.3.1** Describe the effect of multiple forces on the movement, speed, or direction of an object.

**Energy**

**Circuit of Inquiries**

**Making a Battery**

**Rechargeable Batteries**

**Storing and Using Energy in a Battery**

**Introduction to Forces**

**The Force of Friction**

**The Force Exerted by a Motor**

**Work and the Motor**

**Power of a Motor**

**Assessing What You Know**

**Machines**

**The Inclined Plane**

**The Pulley**

**The Lever**

**The Mechanical Advantages of Machines**

**The Efficiency of Machines**

**Motion**

**Motion of Fan Car**

**Motion of a Mousetrap Car**

**The Roller Coaster**

**Motion on a Roller Coaster**

