Big idea: Types of equilibrium and motion include balance, spinning and rolling.

1. Balance
   - Many different objects and shapes can be made to balance.
   - Counterweights can help balance an object.
   - A stable position is one that an object or system returns to after being put in motion.
   - The way an object or system balances can be changed by counterweighting.
   - A mobile is a system of balanced beams and objects.

2. Spinners
   - Objects that go around show rotational motion.
   - The amount and position of mass affects how an object rotates.
   - The motion of an object can be changed by pushing or pulling.
   - Air resistance can act as the force that initiates rotational motion.
   - There are different kinds of rotational motion.

3. Rollers
   - Things move in many different ways.
   - Wheels and spheres roll down a slope.
   - Axles support wheels.
   - Wheel-and-axle systems with wheels of different sizes roll toward the smaller wheel.
   - The amount and location of an added weight can change the way a system rolls.