

Name _____

Forces and Simple Machines

Answer Key

1. Simple machines make work easier by using forces to help us lift heavy objects, move things, or change the direction of a force.
2. A seesaw at the playground relates to Newton's Third Law when you push down on one end (action), causing the other end to rise (reaction), following the law's principle of equal and opposite forces.
3. A crowbar can help lift a heavy object by acting as a lever. When you apply force to one end of the crowbar, it changes the direction and magnitude of the force, making it easier to lift the object.
4. Another simple machine is a pulley. Pulleys consist of a wheel and a rope or cable. They are used to lift heavy objects by changing the direction of the force applied.
5. You might use a simple machine like a wheel and axle when riding a bicycle or opening a doorknob in your daily life.