

# Vocabulary

## Vocabulary

*Study the vocabulary words and definitions below.*

**block and tackle** ..... a system of pulleys

**compound machines** ..... machines built by putting two or more machines together

**efficiency** ..... the measure of work input to work output

**effort** ..... amount of force

**effort arm** ..... the distance between the fulcrum and the point at which effort is applied

**fixed pulley** ..... a pulley that does not move; it only changes the direction of the force

**fulcrum** ..... the point about which a lever turns

**gentle slope** ..... an upward or downward slant with a gradual rise

**inclined plane** ..... a flat surface that has been raised at one end

**lever** ..... a rigid bar that moves around a point

# Vocabulary

**machine** ..... any device that makes work easier by changing speed, direction, or strength of a force

**mechanical advantage (MA)** ..... the number of times a force is multiplied by a machine

**movable pulley** ..... a pulley that moves; it increases force

**pulley** ..... a wheel with a grooved rim that rotates on a rod called an axle

**resistance** ..... an opposing force

**resistance arm** ..... the distance between the fulcrum and the object to be moved

**screw** ..... a simple machine with an inclined plane that winds around a center

**slope** ..... an upward or downward slant

**wedge** ..... a type of inclined plane with sloping sides that come to a point

**wheel and axle** ..... simple machine consisting of a large wheel rigidly attached to a smaller one

**work input** ..... the amount of work put into a machine

**work output** ..... the amount of work a machine produces