

Name: _____

Test Date: 12/1

Science Study Guide- Work and Simple Machines

Vocabulary Pages 1, 9, 19, 29, 43

Effort-the action of applying a force

Force-the application of a push or pull, represented as "F"

Gram-a basic unit used to measure mass, represented as "g"

Load-an object(s) moved by a force

Mass-the quantity of matter in a body, object, or substance, measured as grams, kilograms, milligrams, etc.

Meter-a basic unit used to measure distance, represented as "m"

Newton- a unit of force, represented as "N"

Spring Scale- scientific tool that measures force in newtons

Joule-a unit used to measure work, represented as "J"

Work-a measure of distance over which force is applied

Effort Arm-the part of a simple machine that supports the effort

Fixed Pulley-a simple machine that is attached to the surface and uses a stationary grooved wheel through which a rope, belt, or chain runs

Load arm-the part of a simple machine that supports the load

Simple Machine-one of six devices that make work feel easier, represented as "W"

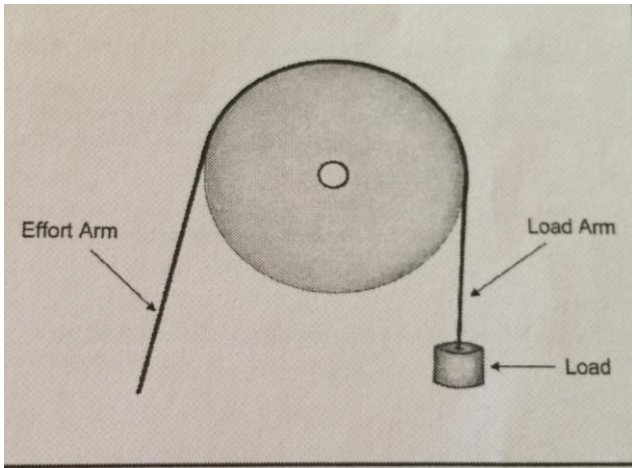
Fulcrum-the component of a lever which supports the beam and upon which the beam turns

Lever-a simple machine consisting of a beam that turns on a fixed point, called the fulcrum

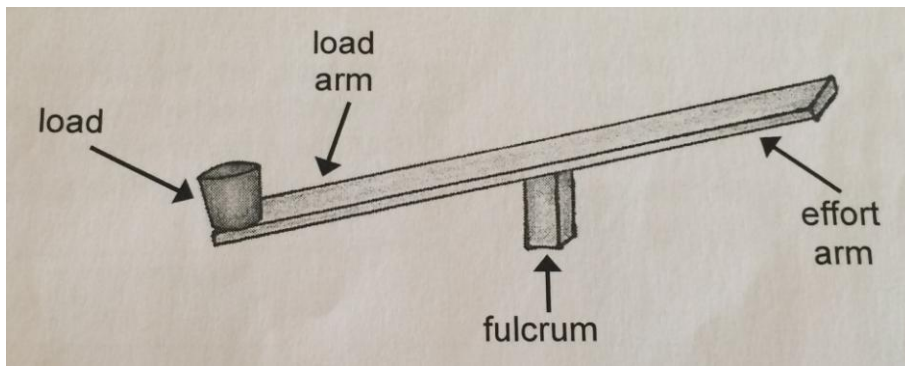
Inclined Plane-a simple machine consisting of a sloped surface

Machine-a mechanical device that changes the application of a force required to move a load

Pulley



Lever



Inclined Plane

