## Simple Machines

Draw a picture of each simple machine and circle the correct answers.

GEARS	INCLINED PLANE
Torque is the tendency of a force to rotate an object around an axis. When you spin the	When you make the inclined plane become
red knob on the first gear, how does the	steeper, what happens to the effort force it takes to pull the car up the plane?
torque on the first gear compare to the torque on the third gear?	
torque on the third gear;	The effort force is more.
equal more less	The effort force is less.
WHEEL AND AXLE	LEVER
A wheel and axle consist of a wheel attached	The offerst ferror in the high set where the least
to a smaller axle so a force is transferred	The effort force is the highest when the lever is in which position?
from one to another. When you turn the red knob to the left, what direction does the red	1 2 2
block move?	1 2 3
up down	

PULLEY	SCREW
A pulley is a wheel on an axle that is designed	A screw is an inclined plane wrapped around
to change the direction of the applied force.	a central core into a spiral shape. Screws
If you pull down on the red block on the left,	convert a turning force into a force that
what direction does the block on the right	goes and
move? <b>down up right left</b>	up and down left and right
	ap and down left and right