

# Assessment Rubric

## Simple Machines

Student's Name: \_\_\_\_\_ Assignment: \_\_\_\_\_ Level: \_\_\_\_\_

	Level 1	Level 2	Level 3	Level 4
Understanding Concepts	Demonstrates a limited understanding of concepts. Requires teacher intervention.	Demonstrates a basic understanding of concepts. Requires little teacher intervention.	Demonstrates a good understanding of concepts. Requires no teacher intervention.	Demonstrates a thorough understanding of concepts. Requires no teacher intervention.
Analysis and Application of Key Concepts	Limited application and interpretation in activity responses	Basic application and interpretation in activity responses	Good application and interpretation in activity responses	Strong application and interpretation in activity responses
Creativity and Imagination	Limited creativity and imagination applied in projects and activities	Some creativity and imagination applied in projects and activities	Satisfactory level of creativity and imagination applied in projects and activities	Beyond expected creativity and imagination applied in projects and activities
Application of Own Interests	Limited application of own interests in independent or group environment	Basic application of own interests in independent or group environment	Good application of own interests in independent or group environment	Strong application of own interests in independent or group environment

SAMPLE

**STRENGTHS:**

**WEAKNESSES:**

**NEXT STEPS:**



# Compound Machines

1. **Circle** the word True if the statement is true. **Circle** the word False if it is false.

a) Compound means separate.

**True**                      **False**

b) A wedge is a simple machine.

**True**                      **False**

c) We can do some things with simple machines we couldn't do without them.

**True**                      **False**

d) An axe is made of two simple machines.

**True**                      **False**

e) Simple machines are always smaller than machines with motors.

**True**                      **False**

2. Put a check mark (✓) next to the answer that is most correct.

a) Which simple machine is a bottle opener?

- A lever
- B pulley
- C inclined plane
- D wheel and axle

b) Which simple machine is a windmill?

- A pulley
- B wedge
- C inclined plane
- D wheel and axle

c) Which simple machine is a knife?

- A lever
- B pulley
- C screw
- D wedge



# Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

AXLE	RESISTANCE	EXERT	PIVOT	WHEEL
METER	ENERGY	NEWTON	WEDGE	LEVER
PULLEY	MOTION	WATT	FULCRUM	POWER
DISTANCE	SCREW	FORCE	PLANE	WORK
METRIC				

B	W	H	E	E	L	C	D	T	F	S	E
G	A	N	H	C	R	J	R	K	E	C	N
K	T	O	L	M	N	P	N	R	E		
R	T	I	E	L	A	W	A	A	E	R	
O	Q	T	R	E	S	R	T	O	L	W	G
W	F	C	R	C	E	S	T	S	P	V	Y
E	W	M	X	V	I	Y	Z	I	I	B	E
D	C	D	E	S	F	R	V	G	H	D	L
G	J	L	E	K	N	O	T	W	E	N	L
E	L	R	M	E	T	E	R	E	M	N	U
P	Q	R	F	U	L	C	R	U	M	S	P

SAMPLE

# Inclined Planes & Wedges



**Axe - Wedge**



**Ramp - Incline Plane**



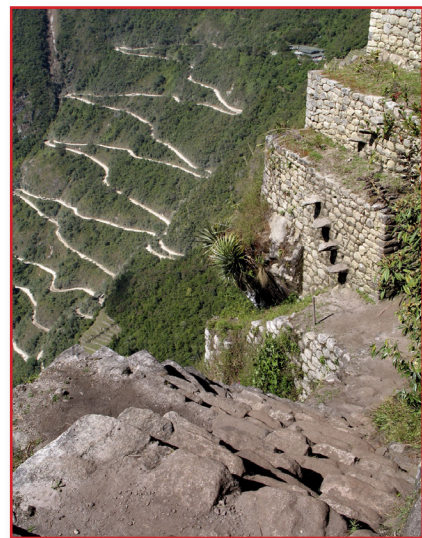
**Incline Plane**



**Knife - Wedge**



**Spike - Wedge**



**Road - Incline Plane**