**Assessment Rubri**

*Simple Machines*

**Inclined Planes**

1. The student can calculate the length of the incline when the height and length of the inclined plane are

given.

2. The student can determine the mechanical advantage of an inclined plane.

3. The student can calculate the hypotenuse of a right triangle when the values for the other two sides

are given.

4. The student can list the steps in the scientific method and explain how each was used in this activity

to determine the mechanical advantage of an inclined plane.

**Levers**

1. The student can explain how levers make work easier.

2. The student can state and explain the formula for mechanical advantage of a lever.

3. The student can create and explain a graph of the force required for levers with different arm lengths

to lift a mass.

4. The student can demonstrate and explain how to use a lever to lift a 4.9-newton weight with two

newtons of force.

**Compound Pulleys**

1. The student can explain the relationship between the mechanical advantage of a pulley system and the

number of pulleys.

2. The student can explain why adding more pulleys increases the mechanical advantage of the pulley

system.

3. The student can demonstrate how to set up and use a six-pulley system.

4. The student can explain how the six simple machines are similar and how they are different.