**Energy:**



Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Block: \_\_\_\_\_\_\_

Lesson 7 – Thermal Energy



Thermal Energy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Ex. A 10 kg box slides down a 2 m high ramp from rest. At the bottom of the ramp the box has a speed of 4 m/s. How much energy was lost to heat?



Ex. A 35 kg child goes down a 3.2 m high slide. The child is initially at rest and moving at 1.8 m/s at the bottom of the slide. How much energy was lost to heat?



Ex. A 475 kg roller coaster starts at rest 150 m high and slides down to a height of 20 m. What is the roller coaster’s speed if 1500 J was lost to friction?

