**Energy:**

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

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

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

Lesson 3 – Calculating Potential Energy

**Finding Potential Energy**

Ex. Ms. Morrin holds a 0.5 kg water bottle above her head at a height of 2.5 m. What potential energy does the bottle have?



Ex. Ms. Morrin’s cat Zeus lounges on the back of a 2 m high couch. If Zeus weights 8 lbs what potential energy does he have?



**Finding Other Variables**

Ex. A 2000 kg plane has a potential energy of 29,400,000 J. At what height is it flying?



Ex. A bird sitting in a 15 m tall tree has a potential energy of 37 J. How much does the bird weigh?



Ex. A 3000 g TV has 118 J of energy. How high up is it sitting on the wall?



Ex. An astronaut on the moon has a mass of 75 kg and jumps up 0.5 m off the surface. If his potential energy is 57 J what is the gravity on the moon?

