

Name: _____ Date: _____

WORK, POWER & ENERGY
Concept Review: Energy True and False

TRUE or FALSE. Carefully read the section in your notes about work, energy, and the different forms of energy. Choose True or False.

_____ If an object hanging from a rope above the ground's surface, and it is stationary, the object has GPE only.

_____ If an object is above the ground's surface and is moving, it has GPE only.

_____ If an object is above the ground's surface and is moving, like an airplane flying, it has both GPE and KE.

_____ If an object is above the ground's surface and is moving, like an airplane flying, it has KE only.

_____ All objects in motion have at least one form of kinetic energy.

_____ When work is performed against gravity, GPE is attributed to that object.

_____ When work is performed against resistance, potential energy is created.

_____ If you stretch a spring, you create electrical energy.

_____ If you stretch a spring, you create elastic potential energy.

_____ If you stretch a spring, you are performing work against resistance.

_____ If a compact disk is playing, the compact disk has translational KE.

_____ If a compact disk is playing, the compact disk has rotational KE.

_____ Fuels are examples of chemical potential energy.

_____ If a ball rolls down an incline, the ball has both rotational and translational KE.

_____ All forms of energy can produce work.

_____ All forms of work can produce energy.

_____ If an elevator is moving upward, the motor is performing work against gravity.

_____ If an elevator is *moving* upward, the elevator is gaining GPE.

_____ If an elevator is *moving* upward, the elevator has translational KE.

_____ If an elevator is *moving* downward, the GPE is decreasing.