

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.