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KINETIC	AND POTENTIAL	ENERGY WORKSHEET	

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Determine whether the objects in the following problems have kinetic or potential energy. Then choose the correct formula to use:

KE = $1/2$ m v ² PE = mass x gravitational acceleration (9.8m/s ²) x height OR Weight X Height
Energy= joules Weight= Newton Mass= kilograms Velocity= m/s Gravitational acceleration= (9.8 m/s²)
1. You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has energy. Calculate it.
2. A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 N. The carriage has energy. Calculate it.
3. A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car hasenergy. Calculate it.
4. A cinder block is sitting on a platform 20 m high. It weighs 79 N. The block has energy. Calculate it.
5. There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell hasenergy. Calculate it.