

ENERGY Mechanical Energy



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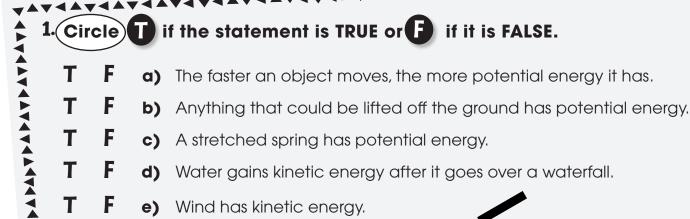
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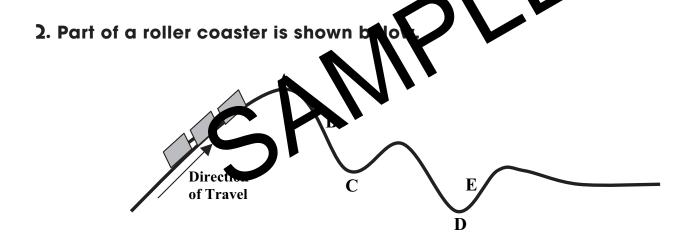




Mechanical Energy



- c) A stretched spring has potential energy.
 - **d)** Water gains kinetic energy after it goes over a waterfall.
- T Wind has kinetic energy.



Five points on the roller coaster ride are shown. Answer each question by writing A, B, C, D, or E.

- a) At which point is the roller coaster gaining kinetic energy?
- **b)** At which point is the roller coaster gaining potential energy?
- c) At which point does the roller coaster have the most kinetic energy?
- d) At which point does the roller coaster have the most potential energy? _____



Home Is Where the Energy Transformations Are

Find out about the energy transformations taking place in your home.

Choose FIVE things from this list:

- TV, Radio, or Stereo
- Toaster
- Microwave oven
- Gas range or oven
- Charcoal grill
- Electric range or oven
- Electric fan
- Matches or a candle
- Telephone
- Cell phone

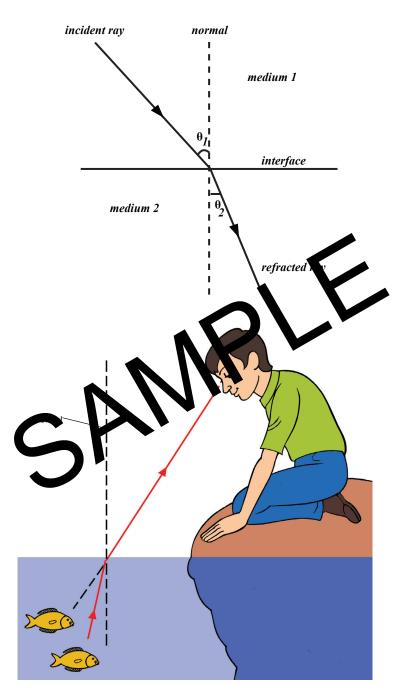


- 1. What form of energy the thing use?
- 2. Is the energy transferred from outside the home or is it already stored in the thing itself?
- 3. What energy transformations take place when you use the thing? Try not to miss any.
- 4. Does it transform any energy into a form you don't really need or want?

Use a chart like the one below to record your answers.

item	Energy used	transferred?	transformations	that is not needed?	

Refraction



A diagram of how light travels with rays and angles labeled and another picture of how refraction changes our perception.