## **Conservation of Energy** SPH4U

"For an	system, energy can be	into different forms, but i
cannot be co	reated or destroyed."	
Example:	A ball is launched at 15 m/s horizontall the speed of the ball when it lands?	y from a ledge 15 m above the ground. What is
Tota	l mechanical energy:	
Froi	m energy conservation,	
Other forms	s of energy include:	
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causes kinetic energy to transform into thermal energy.

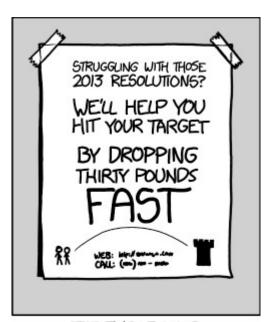
Example: A 20-kg curling rock slides in a straight line for 30 m. The coefficient of kinetic friction is 0.1. How much thermal energy is produced during the slide?

**Textbook Questions:** 

p. 197 #6

p. 200 #13

p. 201 #5, 6



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TREBUCHET-BUILDING CLUB
MAY HAVE BEEN TOO SUBTLE.