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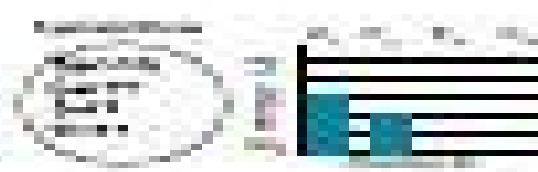
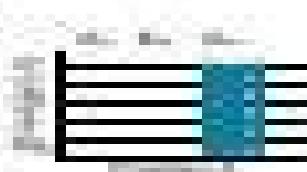
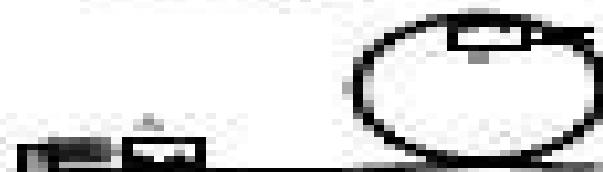
## Classification: Energy Storage &amp; Conservation with Blue Graphics

## 1. Potential Energy

- The energy of an object due to its position or state.
- Potential energy is converted to kinetic energy when the object moves from a higher potential to a lower potential.
- When an object moves from a higher potential to a lower potential, potential energy is lost.

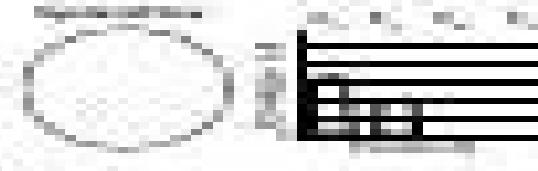
Ex: Potential energy stored below an object's center of mass might be converted to kinetic energy when the object moves from a higher position.

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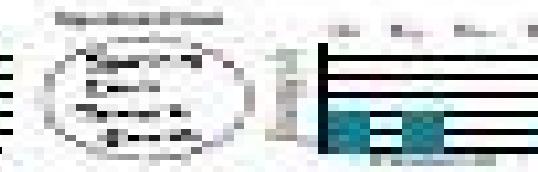
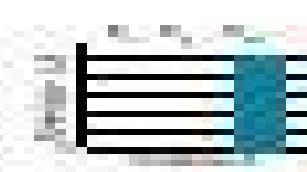
$$\text{PE} = \text{Mg} \cdot \text{H}$$

- Energy potential for the ball is shown with blue boxes for the ball, the ramp, and the mass.
- Potential energy



## 2. Kinetic Energy

- Kinetic energy is potential for the ball to move from the surface to a higher one and vice versa.



$$\text{KE} = \text{Mg} \cdot \text{H} + \frac{1}{2} \text{Mv}^2$$

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# A Energy Ws 3

**Joacim Rocklöv**

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