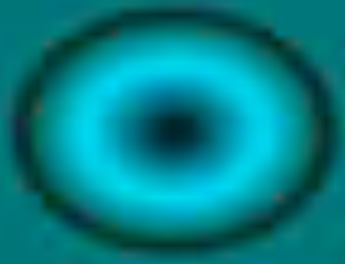




What is Energy?





What is Energy?

The ability to do work or cause change.



What are the different forms of
Energy?



What are the different forms of Energy?

- **Energy has a number of different forms, all of which measure the ability of an object to do work on or change another object.**
- **In other words, there are *different ways* that an object can possess energy.**



What are the different forms of Energy?

- Kinetic Energy
 - Potential Energy
 - Thermal, or heat energy
 - Chemical Energy
 - Electrical Energy
 - Electrochemical Energy
 - Electromagnetic Energy (light)
 - Sound Energy
 - Nuclear Energy
- Mechanical Energy*



Define Potential Energy



Define Potential Energy

Potential energy is energy due to position or stored energy. Potential energy is also called gravitational potential energy.



Give an example of potential
energy

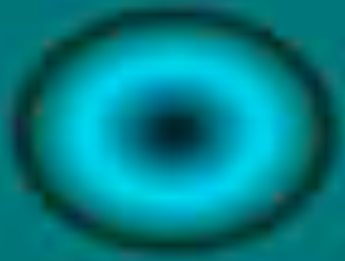


Give an example of potential energy

By stretching a rubber band, you give it potential energy. A vase on a shelf has stored potential energy. A football being held by a quarterback has potential energy until it is thrown and it turns into kinetic energy.



Define Kinetic Energy



Define Kinetic Energy

Kinetic energy is the energy of motion.

Kinetic energy is measured by how much work is done to put an object in motion or to rest.

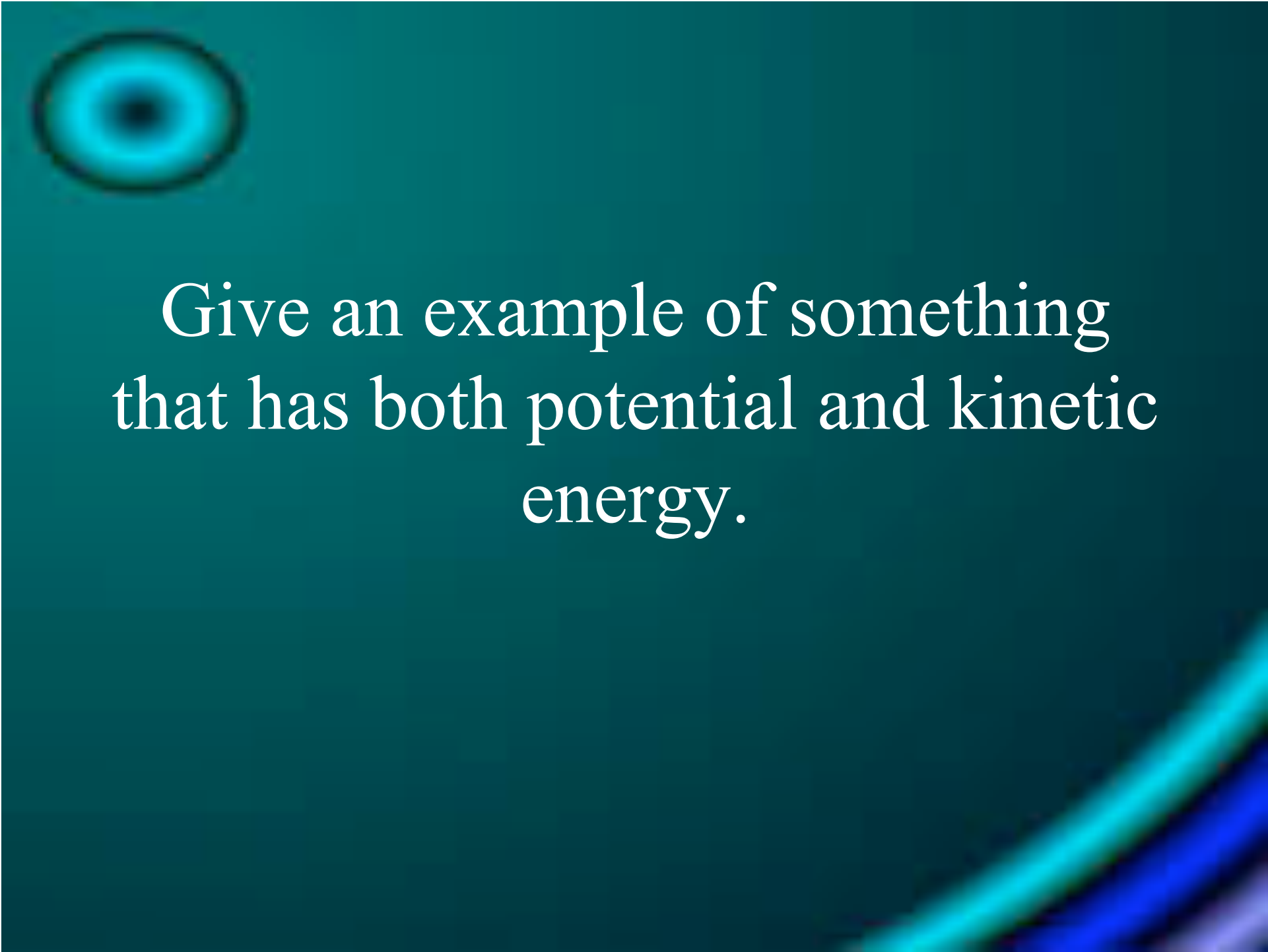


Give an example of kinetic energy



Give an example of kinetic energy

A basketball player has kinetic energy. The movements that she does show the energy that is being displayed while she is moving. When you are running, walking, or jumping, your body is exhibiting kinetic energy.



Give an example of something that has both potential and kinetic energy.



Give an example of something that has both potential and kinetic energy.

A waterfall has both kinetic and potential energy. The water at the top of the waterfall has stored potential energy. Once the water leaves the top of the waterfall, the potential energy is changed into kinetic energy.



Click this link for more information about potential & kinetic energy. Remember to hit the “back” button on your browser to return to this slide show.

<http://www.usoe.k12.ut.us/curr/science/sciber00/8th/forces/sciber/potkin.htm>



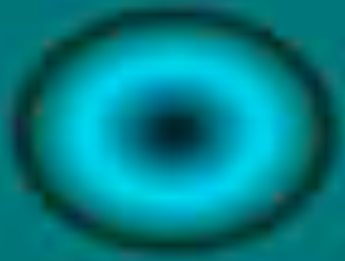
Describe Conservation of Energy



Describe Conservation of Energy

Energy cannot be **created** or **destroyed**; it can only be **changed** from one of form of energy to another form.

The amount of energy stays the same.



Describe Conservation of Energy

Click here for more examples of Conservation of Energy:

[http://web.singnet.com.sg/~stepchin/
Conserv.htm](http://web.singnet.com.sg/~stepchin/Conserv.htm)

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