Energy Review

**What is ENERGY**? *The ability to do work or cause change*

**The LAW OF CONSERVATION OF ENERGY states:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2 types of Energy**

[](http://www.google.com/imgres?imgurl=http://www.xfactorfitnesssolutions.com/blog/wp-content/uploads/2011/08/438557-Royalty-Free-RF-Clip-Art-Illustration-Of-A-Cartoon-Man-Running-In-A-Triathlon.jpg&imgrefurl=http://lol-rofl.com/cartoon-people-running/&h=450&w=433&tbnid=Qu9m8nBb5Z2w2M:&zoom=1&q=cartoon%20running&docid=4BKAzIUCE-73MM&ei=xK-IVJzgLfjGsQTW8IKgBw&tbm=isch&ved=0CD4QMygVMBU&iact=rc&uact=3&dur=1101&page=1&start=0&ndsp=26)[](http://www.google.com/imgres?imgurl=http://toonclips.com/600/10641.jpg&imgrefurl=http://toonclips.com/design/10641&h=620&w=600&tbnid=H9Uq-cww8wYLGM:&zoom=1&q=cartoon%20with%20slingshot&docid=j9aAjdqLXJGIQM&ei=crCIVNyyO8HPsQSm24HYAw&tbm=isch&ved=0CB8QMygDMAM&iact=rc&uact=3&dur=669&page=1&start=0&ndsp=28)

**Potential Energy**

***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Kinetic Energy**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Types of Kinetic Energy**

* M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* S\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* T\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Electromagnetic Energy
* Nuclear Energy
* Electrical Energy

**Types of Potential Energy**

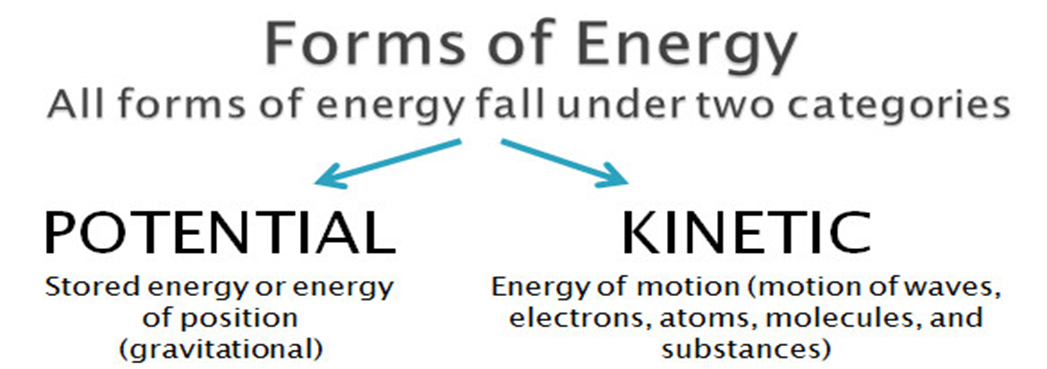
* (GPE)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* (CPE)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* (EPE)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

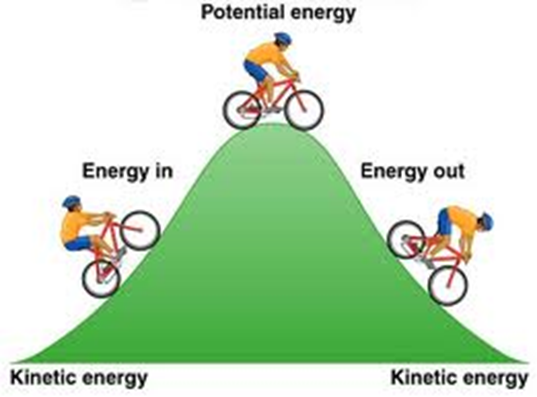
**Types of Potential Energy**

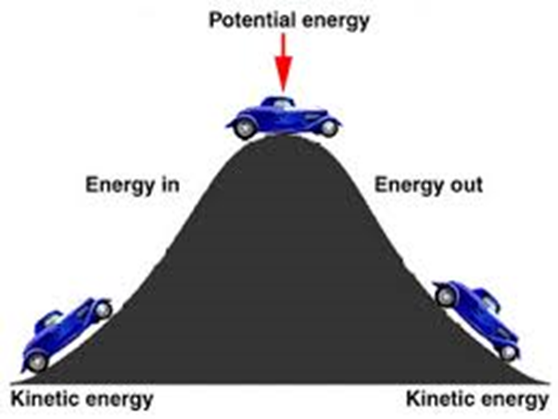
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| **Type of Potential Energy** | **Definition** | **Example** |
| **Gravitational Potential Energy** | ***Energy due to an objects position \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***  ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ GPE increases as the distance from Earth’s surface \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***  **GPE =** MASS **x**  HEIGHT | * **An apple falling from a tree** * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Chemical Potential Energy** | ***Energy stored in* \_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** | * **Potential energy found in an apple** * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Elastic Potential Energy** | ***Energy stored when an object is* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *or* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | * **Potential energy in a sling shot.** * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   * **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**Types of Kinetic Energy**

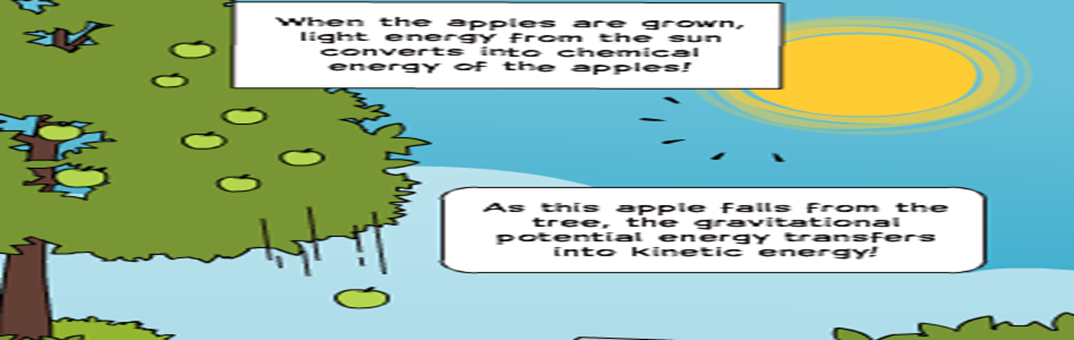
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| --- | --- | --- |
| **Type of Kinetic Energy** | **Definition** | **Example** |
| **Mechanical Energy** | Energy that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Sound Energy** | Energy that results from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| **Thermal Energy** | A measure of the total amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy in an object |  |
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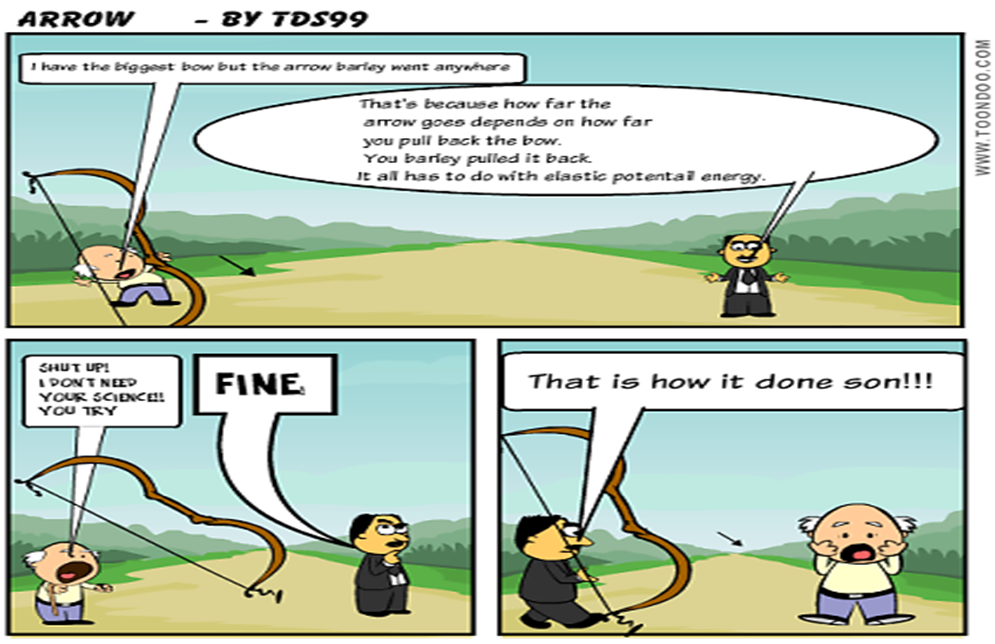




Describe the transfer of energy. As Kinetic energy increases, what happens to potential energy? AND as potential energy increases, what happens to kinetic energy? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Gravitational Potential Energy***

***Elastic Potential Energy***





***Chemical Potential Energy***