Energy

1. Watch the following video about energy. <https://www.youtube.com/watch?v=k4b3oxO0WqE>

2. List all the forms of energy. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. State the law of conservation of energy.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. Define the following:

a. Gravitational Potential energy:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Kinetic energy:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Energy can be transformed from one form to another form. Write down the
initial and final forms of energy for the following:
<http://www.poweringourfuture.com/students/energy/index.php>

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| **Process/Device** | **Initial form of energy** | **Final form of energy** |
| Photosynthesis |   |   |
| Light bulb |   |   |
| Electric motor |   |   |
| Electric generator |   |   |
| Solar still |   |   |
| Photovoltaic cell (solar cell) |   |   |
| During friction |   |   |
| Using a battery |   |   |
| Charging a battery |   |   |
| In a microphone |   |   |
| In a loudspeaker |   |   |
| In a nuclear reactor |   |   |