Lesson 1 Getting to Know Energy





The ability within anything that can:

- 1) Energy able to move object or doing work
- 2) Energy able to storage
- 3) Energy able to transformed



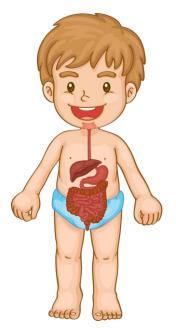
Lesson 1 Getting to Know

The ability or capacity to do work, such as the energy in our bodies that allows us to move. Energy can be transformed and stored in many forms.

Energy is stored in the form of food.



Eating and digesting We have the energy food to create energy.



to kick a ball.





The ability or capacity to do work, such as the heat energy in an engine is converted into mechanical energy that makes a car move.

Energy is stored in the form of oil.



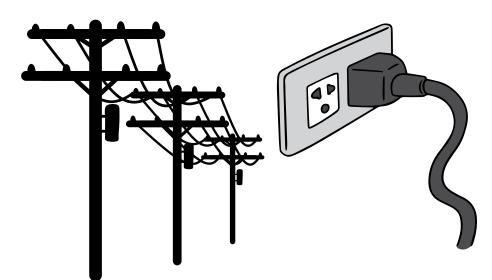
Refueling your car keeps it running.





The ability or capacity to do work, such as converting electrical energy into light in a light bulb or making a fan motor spin.

Energy is stored in the form of electricity.



Electricity can make electrical appliances work.







The ability or capacity to do work such as heat energy from burning fuel, which can be used to cook food.

Energy is stored in the form of charcoal and firewood and burned to provide heat energy.



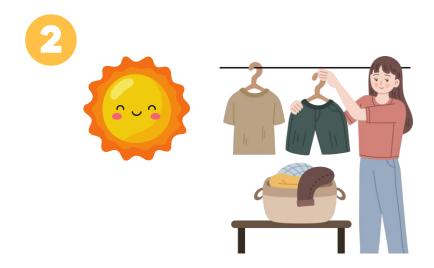
Thermal energy can be used to cook food.





In the picture, what types of energy are stored and how is the energy used?











In the picture, what types of energy are stored and how is the energy used?



Storing energy in the form of cooking gas
Burning as heat energy that can be used to cook food



Storing energy in the form of the sun Sunlight provides heat energy that can be used to dry clothes.



Storing energy in the form of electricity Electricity can be used to turn on the TV.



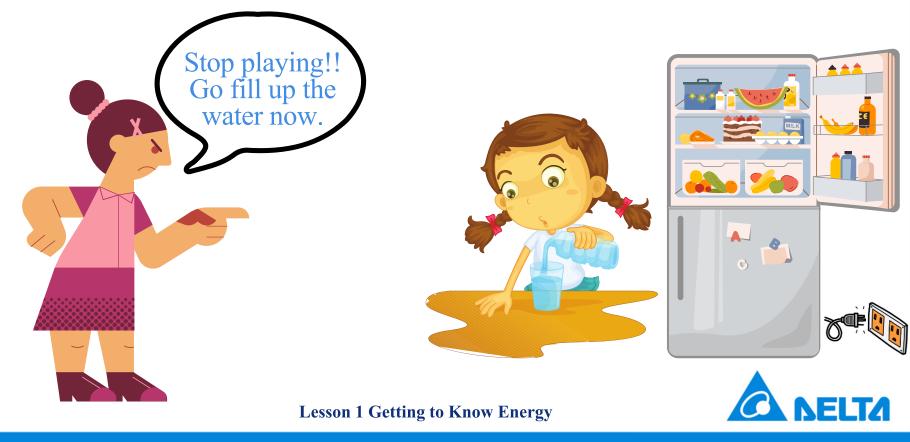
Storing energy in the form of gasoline Refueling your motorcycle to run the engine



In the picture, when mom tells you to go fill water, what kind of energy does it contain?

Answer 1) A mother changes the energy in the body into sound energy.

- 2) A kid converts body energy to lift a bottle to pour water.
- 3) Refrigerator changes the electrical energy into cold.

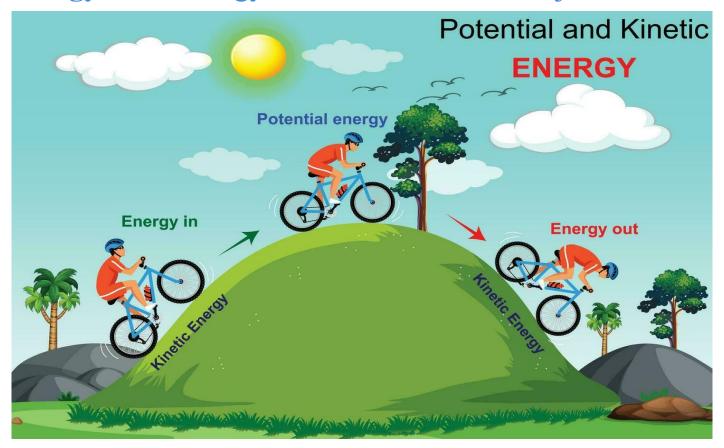


Potential Energy: The energy stored in an object when it is at a high altitude and is being pulled down to the ground or flows to a lower place.

Kinetic Energy is the energy that occurs when an object moves. **Lesson 1 Getting to Know Energy**

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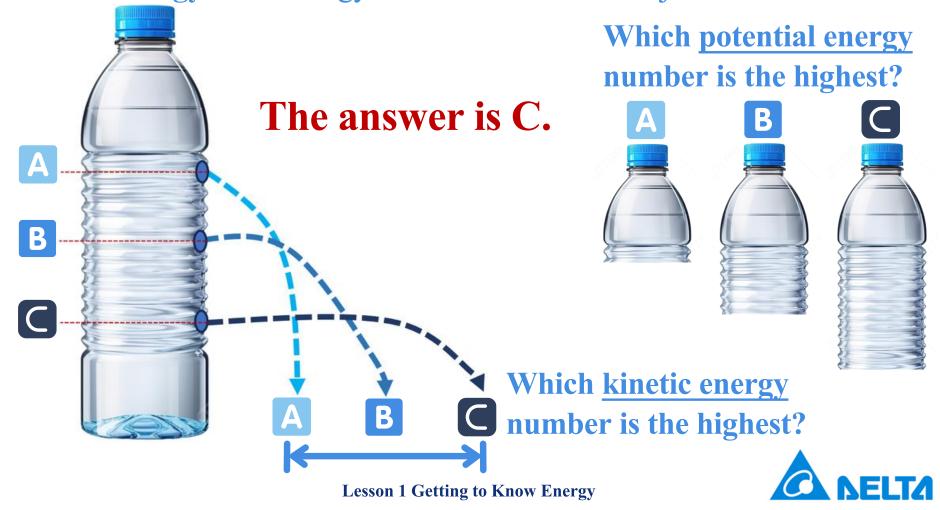
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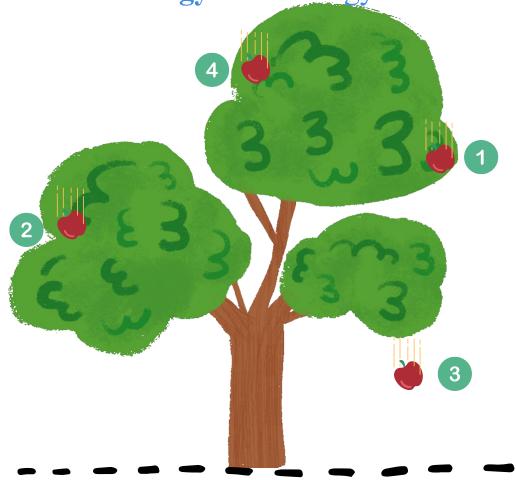
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Answer the Question

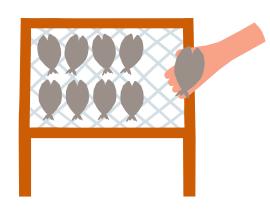
Arrange the apples in order of their potential and kinetic energy from greatest to least.

The answer is 4 > 1 > 2 > 3





Solar fish drying









Generating electricity with solar cells







Solar energy can be used to generate electricity using solar cells.

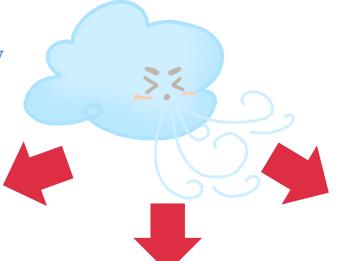




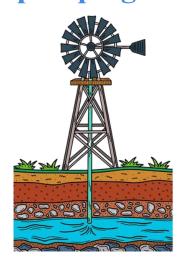
Wind Energy

Wind power propels sailboats to sail at sea.





Water pumping windmill



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Generating electricity with wind turbines





Wind energy can be used to generate electricity using wind turbines.





Hydropower

Water wheel







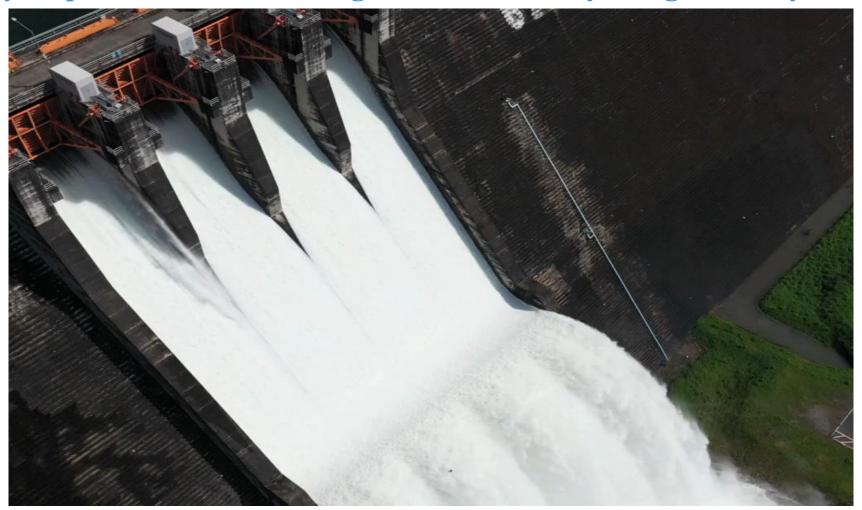
Generating electricity with hydroelectric power







Hydropower can be used to generate electricity using a dam system.





Petroleum/
Fossil Energy

Refueling your car







Cooking gas



Generating electricity from natural gas





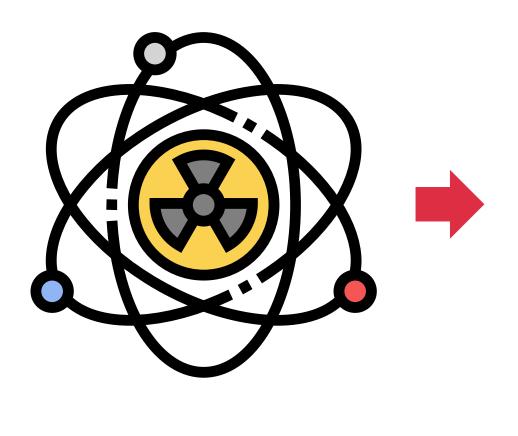
Fossil energy can be used to generate electricity with natural gas/ coal power plants.





Nuclear energy

Electricity generation from nuclear power plants

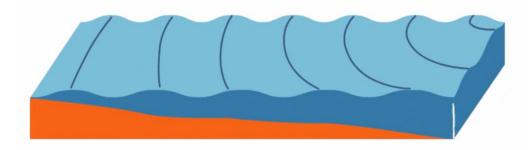






What energy sources are shown in the picture and how can they be used?











The End of Lesson 1





Interested in joining an activity with Delta?

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