

## What is Energy?

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In the last segment, we learnt about **work** using some examples. In this segment, we are going to learn about energy.

### What is Energy?

Energy is the ability to do work. It exists in various forms like Kinetic Energy, Potential energy, Thermal energy, electrical energy, chemical energy, Nuclear energy.

It is quite interesting to note that energy can be transferred from one object to another. For instance, if a moving car accidentally hits a stationary car then it causes the stationary car to move. It is because the energy possessed by the moving car is transferred to the stationary upon contact and this makes the stationary car to move.

### What is the unit of Energy?

The amount of work being done by the object is due to the energy obtained by the object. Hence the unit of energy will be equal to the unit of work done. Thus, the S.I. unit of energy is **Joules**.

### Summary

<b>Energy</b>	<ul style="list-style-type: none"> <li>• Energy is the ability to do work.</li> <li>• S.I. unit of energy is <b>Joules</b>.</li> </ul>
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### Did you know?

Each hour 430 quintillion Joules of energy from the sun hits the Earth. That's 430 with 18 zeroes after it! In comparison, the total amount of energy that all humans use in a year is 410 quintillion Joules.

### What's next?

In our next Class 9 Science segment, we shall learn more about **mechanical energy**.