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Chapter - 11

Simple Machines

People do many jobs like moving things, lifting things, cutting and so on. To do any kind of job, you have to do work. Therefore, you need energy. Some jobs are easy while some are difficult. Easy jobs need less energy. Hard jobs need more energy. Can we make jobs simpler and easier? Any device that helps us to make our work simpler and easier is called a machine.

Suppose you want to move a large pile of bricks from one place to another. Can you lift all of them at once? That would certainly be very difficult. What would you do? You move one or two bricks at a time. This way, it is easier to move the whole pile. This is an important way of doing work more easily. Divide the work into small parts and do one part at a time. The work is done slowly, but it is made easier.

Make a list of other kinds of work that we can do more easily by dividing each into small parts.

So, simple machines are tools that enable us to work easily in less time with less effort, for example, a knife used at home every day to cut things easily. Bigger machines such as a crane or a car engine are made up of many smaller simple machines working together.

A. Why do we use simple machines?

Jyoti