

ACTIVITY NO. –15 - LET'S SAVE ELECTRICITY!!

Subject	Science
Class	X
Chapter/Unit	Chapter -14 -Sources of Energy
Topic	Saving Electricity
Time	7 days
Nature of Activity	Individual work

What will I learn (Learning Outcome)?

To investigate the ways of saving electricity at home.

Skills: Analyzing and Creating

What I have to do?

To find ways of conserving electricity at home.

What do I require?

Electricity bill of a month, Internet for research work

What do I need to know?

Saving electricity will reduce personal electric costs and can reduce pollution, carbon dioxide emissions, oil consumption, and even the creation of more power plants. There is a need for alternative energy sources and energy-efficient lifestyle .

➤ Teacher's Activity

Teacher will :

1. Discuss various methods to save electricity at home and also discuss alternate sources of energy.
2. explain the steps of the activity.
3. ensure that each participant or participants in pair perform (s) the activity .

How will I proceed?

➤ Students activity

Students will

1. study electricity bills to know (i) the company supplying power to their houses, (ii) number of units consumed in a month
2. Find out the number of appliances which are rated with five stars i.e. energy saving appliances.
3. List good habits that helps to save electricity. Adopt any five good habits.

What have I observed?

1.	Name of the company that supplies electric power to your house	
2	The number of units of energy used in a month	
3.	Number of appliances rated with five stars.	

What have I learnt?

- The devices /appliances rated with _____ stars are the best energy saving devices.
- Judicious use of electrical appliances helps _____.

What am I curious to learn?

- I will try to find out the appliances used in my house contribute maximum towards electricity bill.
- I will also find out about a refrigerator called as ‘The Mitti cool fridge’ which is made from clay. This refrigerator is made by Indian inventor , Mansukhbhai Prajapati. I will also find the advantages and disadvantages of such a refrigerator.

Let me evaluate myself

Q.1. Which type of current comes to your home – AC or DC? Explain

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Q.2. An average home in Delhi consumes roughly 260 units of electricity in a month. How does your home compare to this average?

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Q.3.How does electricity move from a point source like a coal power plant to your home? Are there losses of energy in the transmission? If so, why?

Q.4. Suggest alternative sources of energy that can help us save electricity at our homes.

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Q.5.Government is encouraging the installation of solar panels in houses. Do you support this initiative? Justify by giving reason.

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