

Student Worksheets

Electrical Power and Energy



Identity:

Name :

Class :

Roll number :



Time Allocation : 40 minutes
Material : Dynamic electricity
Subchapter : Electrical Power and Energy
Class : IX

A. LEARNING OBJECTIVES

- Students are able to understand the concept of power and electrical energy.
- Students are able to analyze changes in electrical energy in everyday life.

B. CHARGING INSTRUCTIONS

- Read the prayer before working on the LKPD
- Read this LKPD carefully
- If you have difficulty, ask the teacher.
- Do the LKPD according to the instructions and answer the questions given.

C. ACTIVITY 1

Find 10 different sources of electrical energy from the table below!

C	O	B	I	O	M	A	S	S	T	I
R	I	C	N	U	C	L	E	A	R	E
U	H	O	C	S	W	A	T	E	R	D
E	B	A	T	T	E	R	Y	E	G	W
D	S	L	J	S	T	O	L	R	S	A
O	U	E	W	T	U	E	D	C	B	V
I	N	W	I	N	D	F	G	A	M	E
L	G	E	O	T	H	E	R	M	A	L



D. ACTIVITY 2

After identifying the energy sources above, identify the changes in electrical energy that occur in several electronic devices below!



E. ACTIVITY 3

After studying the material on power and electrical energy, do the following practice questions and write the answers in the column provided!

1. Mention several factors that influence the amount of electrical energy!

2. The increase in population can cause the need for electrical energy to also increase. What efforts can someone take to save electrical energy?

3. A lamp installed in a living room has a voltage of 6 volts and the current flowing through the lamp is 150 mA. Calculate the amount of energy needed in 2 minutes!

4. Farhan is doing an effort of 450 Joules to move a table for 5 minutes. Calculate the amount of force exerted by Rani to move the chair

Good!
Luck! ★