

Student Worksheet (LKPD)



SERIES AND PARALLEL ELECTRICAL CIRCUITS

Class IX odd semester



Name :

A large, light purple rectangular box with a dashed purple border, intended for the student's name.



LKPD

Learning Objectives:

1. Students are able to identify electrical circuits
2. Students are able to identify the flame of lights in series and parallel electrical circuits

Charging Instructions :

To achieve the competencies in LKPD, students are expected to follow the following filling instructions:

1. Read the charging instructions in the LKPD carefully
2. Do this LKPD independently
3. It is allowed to use the help of electronic devices to help convince answers through the application "Phet Colorado Simulation"
4. In LKPD there is a video link that can be watched to increase understanding of the concept
5. Do the tasks in LKPD well and sincerely
6. If there are things you don't understand, ask the teacher

LKPD

Material Deepening:

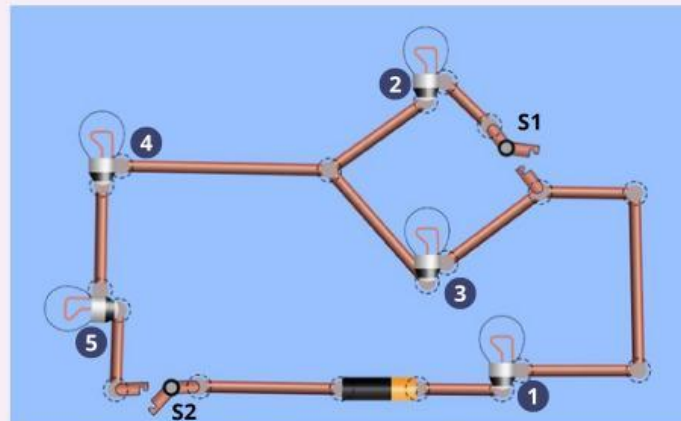
Check out the following video to make it easy to do the task

<https://youtu.be/Yp9vitjBYtE>

<https://youtu.be/kBl5CGwKv1l>

Practice :

A. Pay attention to the following electrical circuit!



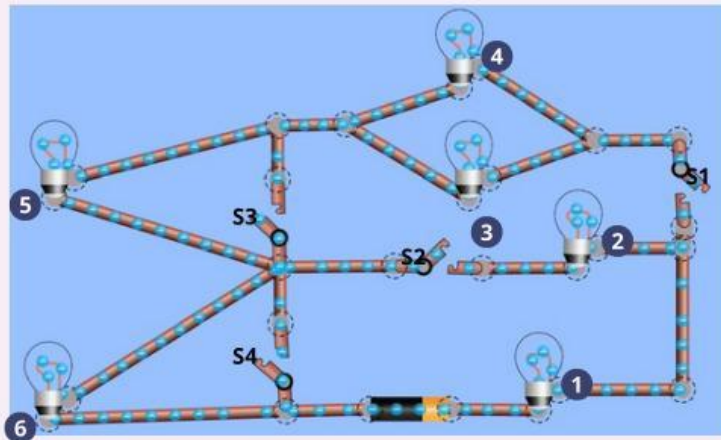
1. The electrical circuit above is a circuit?
 - a. mixed circuit
 - b. parallel circuit
 - c. series circuit
 - d. semi-parallel
2. The circuit of lamps 1, 4, and 5 are arranged in ...
 - a. mixed circuit
 - b. parallel circuit
 - c. series circuit
 - d. semi-parallel
3. The circuit of lamps 2 and 3 are arranged in ...
 - a. mixed circuit
 - b. parallel circuit
 - c. series circuit
 - d. semi-parallel

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4. What is the condition of the lamps in the circuit if switch 2 is open?
 - a. Lamps 1,3,4 and 5 will light up
 - b. Lamps 1,2,3 and 4 will light up
 - c. All lamps will light up
 - d. All lamps will go out
5. What is the condition of the lamps in the circuit if switch 1 is open?
 - a. Lamps 1,3,4 and 5 will light up
 - b. Lamps 1,2,3 and 4 will light up
 - c. All lamps will go out
 - d. All lamps will light up
6. What is the lighting condition of the lamps in the circuit if all switches are closed?
 - a. The lamps 1, 4, and 5 are dimmer
 - b. The lamps 1, 2, and 3 are brighter
 - c. The lamps 2 and 3 are brighter
 - d. The lamps 2 and 3 are dimmer

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B. Pay attention to the following electrical circuit!



7. If switch 1 is closed, then the lamps that lights up are...

8. If switch 2 is closed, then the light that lights up are ...

9. If switches 2 and 4 are closed, then light that go out are...

10. If switch 2 is closed, the type of electrical circuit on the lamp that lights up is ...