

USING THE STEM EDUCATION SYSTEM TO DO LABORATORY WORK ON "COLLECTING AND OPERATING AN ELECTRIC CALL"

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Annotation:

It is intended to encourage students to pursue independent research and discover the joy of discovery in order to increase students' interest in natural sciences, particularly in physics, and to encourage them to connect their perceptions of the universe with STEM activities.

Keywords: competence, experimentation, STEM, electrical chain, industry, element.

One of the ways to solve this problem is practical experimental activities of students in institute laboratories. Thus, students not only get acquainted with the concepts of celestial bodies and their movements, as well as new technologies, but also carry out experiments, researches, and projects. Students will study the following during laboratory work on "Collecting and Launching an Electric Call."

Purpose of the work: Learning how to collect an electric bell in the simplest electrical chain

Required equipment: Land source (batteries), key, ampermeter, voltmeter, connecting wires, electrical call and wheel

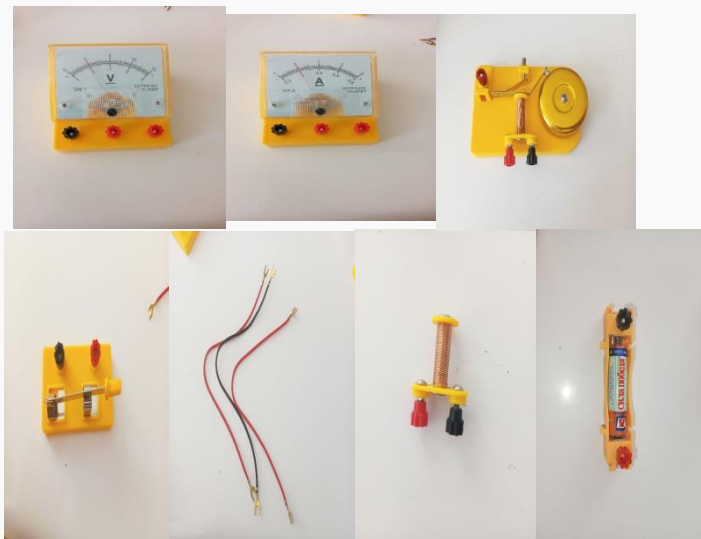
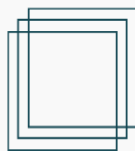


Figure 1



A **land source** is a device that converts various types of energy into electricity. It is conditionally divided into chemical and physical token sources. The resulting rise in sea levels from the meltwater could spell disaster for hundreds of hundreds of people. Such token sources include galvanic elements, electrical generators and other devices.

Electrical voltage is the physical size equal to what electrical and external forces do when a unit moves a positive charge in a specific part of the chain.

Layout Order

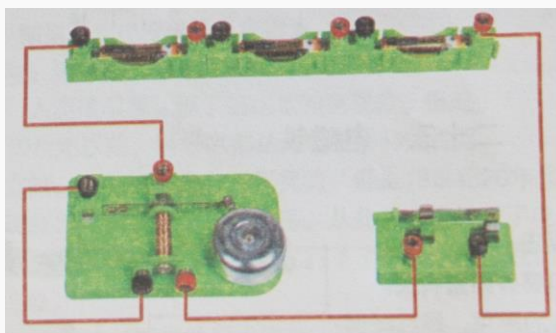
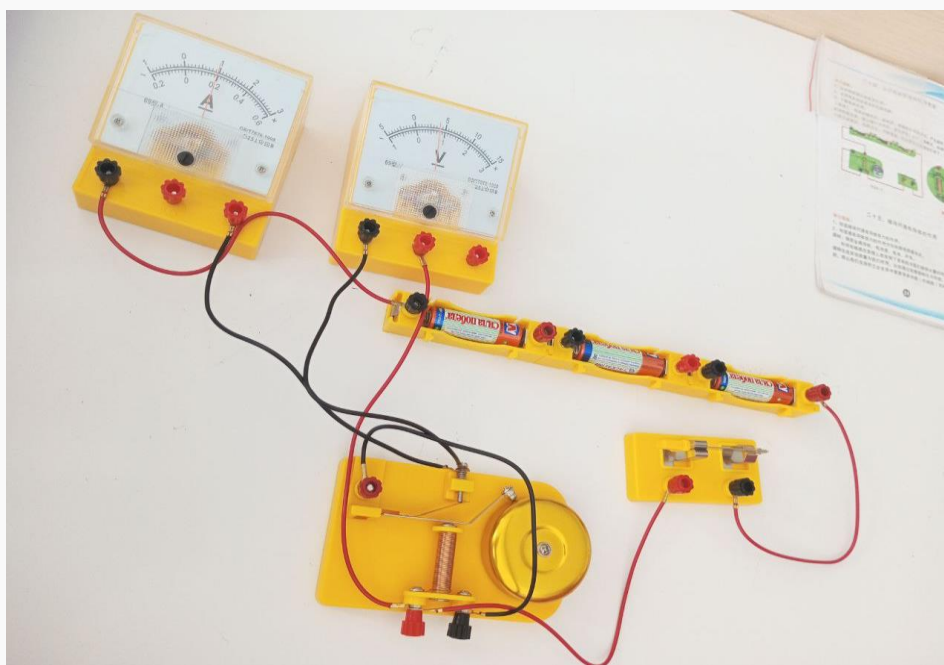
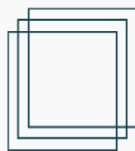


Figure 2

1. Initially collect the scheme as shown in Figure 2.
2. To make sure that the scheme is correctly assembled, connect the key and check.
3. If you connect the scheme correctly, the sound of our electric call will come out.
4. Connect the ampermeter sequentially to determine the power of the token using connecting wires to it. (Figure 3)
5. Connecting the voltmeter parallel to determine the voltage is certainly using connecting wires. (Figure 3)
6. If the circuit is properly connected, you can see that the ampermeter and voltmeter are working.
7. Students connect the scheme correctly and record the indicators in the voltmeter and ampermeter in the table.
8. The assembled electrical chain can be seen in the photo below.

N/r	I (A)	U (V)	R (om)
1			
2			
3			

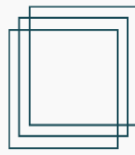


Conclusion:

In conclusion, in this laboratory work, students will develop their experimental competence by using the STEM education system to connect an electrical call to a simple electrical chain and determine the power and power of the land in the chain.

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