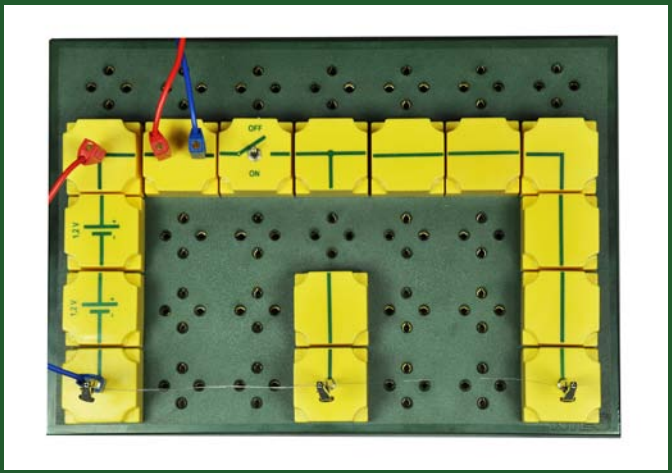
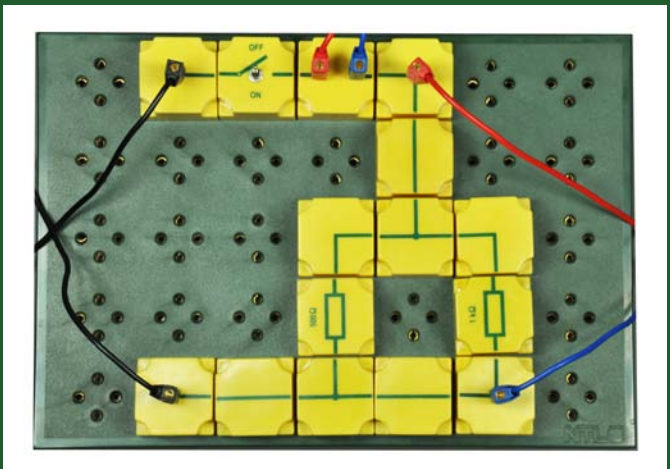
Student Experiments

Manual

ELECTRICITY 1

P9160-4D





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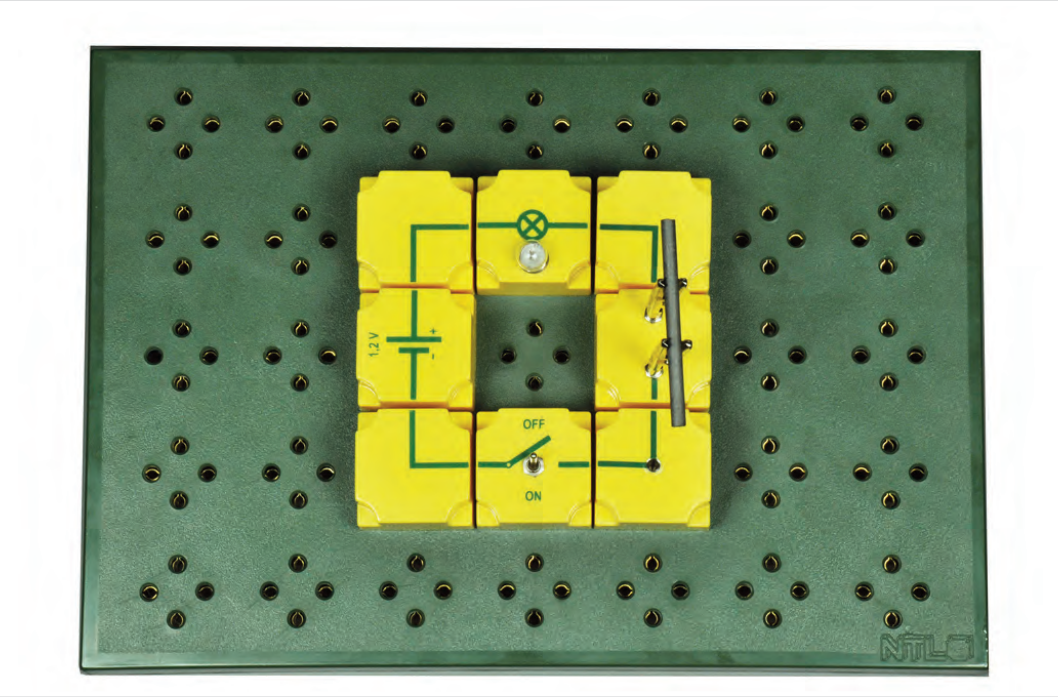
CONDUCTORS AND NONCONDUCTORS

ELS 1.7

Required Kit:
P9901-4D Electricity 1



Material:
1x Plug-in panel
2x PIB wire, angled, with socket
2x PIB wire, angled
1x PIB wire, interrupted, with socket
1x PIB switch, ON/OFF
1x PIB battery, 1.2V
1x PIB lamp socket E10
1x Conductors and nonconductors, set
1x Electrodes, set
1x Light bulb, 2.5V/0.2A, E10
2x Crocodile clip with plug

CONDUCTORS AND NONCONDUCTORS

ELS 1.7

Some materials conduct electrical current well („conductors"), others do not conduct electrical current at all („noncoductors" or „insulators").

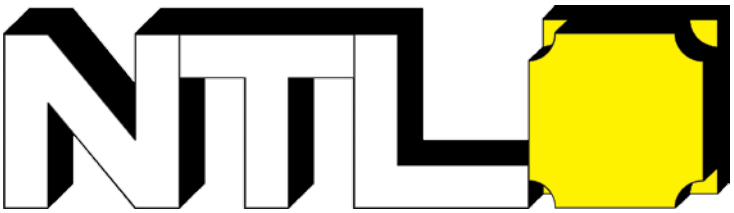
Wiring:

Arrangement of the wiring according to the illustration. The crocodile clips are put into the PIB with socket.

Experiment:

Different materials are clamped into the crocodile clips (paper, plastics, wood, coal, various metals). After closing the switch the lamp indicates conductors and nonconductors by glowing or no glowing.

Conclusion:
All metals and coal are conductors. Plastics, paper and wood are examples for insulators..



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