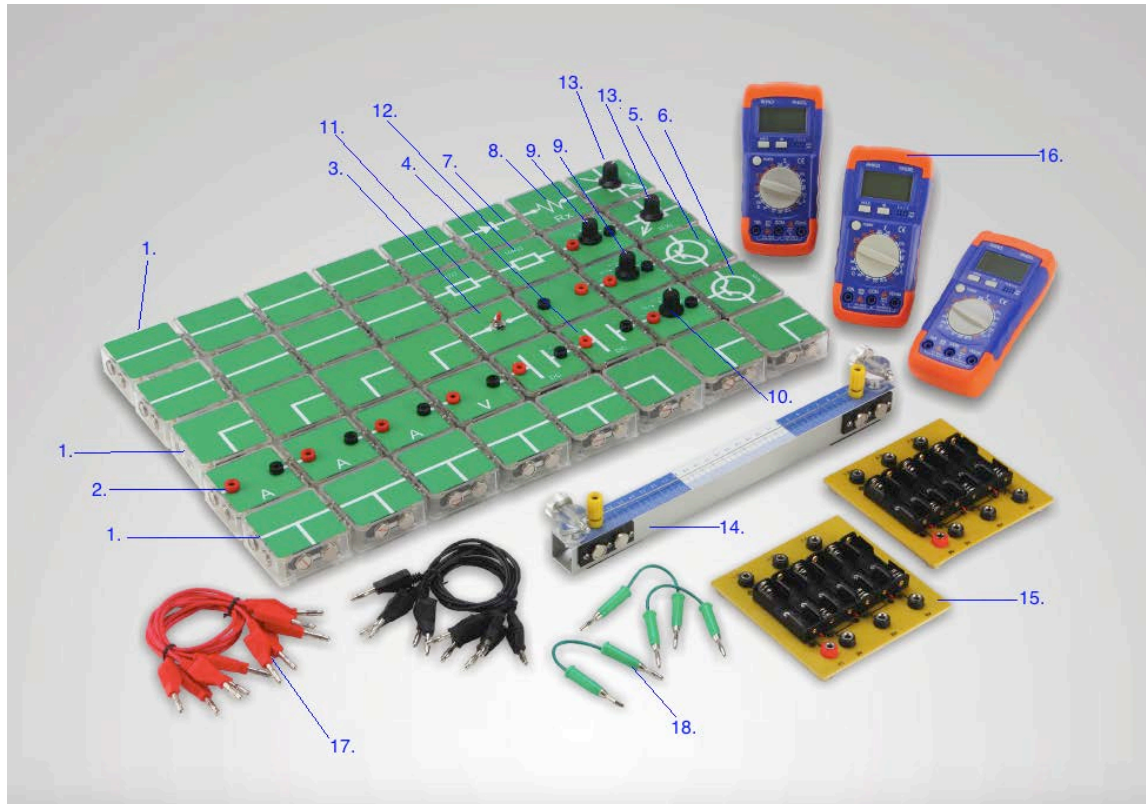


## F06 Fundamental Electricity and Electronics



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### *Experiments:*

1. Base on the measurement of voltage, current and resistance, Ohm's Law might be examined.
2. Using Kirchoff's Law to study current or voltage induced in multiple loop.
3. Referred to Wheatstone bridges circuit- resistance is measured.
4. Study the properties of diode and its working performance.
5. Study the properties of PNP and its I-V characteristic curve.
6. Study the gain value of PNP.
7. Study PNP resistor's I-V curve.

### ***Specifications:***

Every electric parts set up in a transparency building block made by acrylate plastic size is 60x60x28mm. Each with two or three pairs tache magnetism can easy connect and conduct the electricity with others. Bottom of box with rubber magnet to fix on iron board and box can easy open to replace parts.

1. Connector straight x9, connector angled x7, connector T shaped x5
2. Connector ammeter x3, connector voltameter x1
3. Connector On/off switch x1
4. Connector DC power supply x2
5. PNP transistor x1
6. NPN transistor x1
7. Silicon diode x1
8. Unknow resistor x1
9. Resistor 10.2/29.5/47.3/80.9/100.5 $\Omega$  x2
10. Resistor 1.2/2.4/3.5/5.8/8.5  $\Omega$  x1
11. 11.Resistor 47 $\Omega$  x1
12. 12.Resistor 10K $\Omega$  x1
13. Potentiometer 1K x1
14. 14.Bridge rectifier x1
15. 15.DC power supply holder 1.5V/3.0V/4.5V/6.0V/7.5V/9.0V x2
16. Digital Multimeter x3
17. Connecting cable with plug x6
18. Short-circuit connecting cable x3