

## Student set Electricity/Electronics 3 with Building Blocks, Electronics, TESS advanced Physics

Article no: 25267-88



### Function and Applications

Supplementary equipment set for Electric/Electronics Building Block System Basic set 1. In combination with this set, another 23 student experiments can be performed:

- Capacitors (3 experiments)
- Diodes (11 experiments)
- Transistors (9 experiments)

### Benefits

- Complete equipment set: simple execution of the experiments
- The equipment is stored in a rugged, stackable and compact box, allowing quick control of completeness (foam insert)
- Experimenting literature for pupils and teachers available: minimal preparation time
- Matched with international curriculum: all topics are covered
- The circuits are assembled directly on student's desk and the safe electric contact is guaranteed by the use of a unique puzzle block system with corrosion-free gold plated contacts. No breadboard is required.
- Rugged -PUZZLE- blocks featuring contrasted screen-printed electric symbol on top
- Easy teaching and efficient learning through the digital experiment descriptions enclosed as QR codes

### Equipment and Technical Data

- The equipment set consists of all necessary components for the experiments

## Scope of delivery

T-shaped connector module, SB	05601-03	2
Resistor module 100 Ohm, SB	05613-10	1
Resistor module 500 Ohm, SB	05613-50	1
Resistor module 1 kOhm, SB	05614-10	1
NPN transistor module BC337, SB	05656-00	1
Bridge rectifier module, SB	05655-00	1
Photodiode module, SB	05653-00	1
Light emitting diode module red , SB	05654-00	1
Z-diode module ZF4.7, SB	05652-00	1
Silicon-diode module 1N4007, SB	05651-00	1
Capacitor module 47 nF, SB	05642-47	1
Capacitor module 47 µF non-polar electrolytic, SB	05645-47	1
Capacitor module 100 µF non-polar electrolytic, SB	05646-10	1
Capacitor module 470 µF non-polar electrolytic, SB	05646-47	1
Iron core, U-shaped, laminated	07832-00	1
Solar cell 3.3 x 6.5 cm, with plugs, 0.5 V, 330 mA	06752-09	1
On-off switch module, SB	05602-01	1
Potentiometer module 10 kOhm, SB	05625-10	1
Tightening screw	07834-00	1
Coil, 1600 turns	07830-01	1
Earphones with 4mm-plugs	06811-01	1
Holder for solar cell 3.3 x 6.5 cm, with plugs	06752-08	1
Iron core, I-shaped, laminated	07833-00	1
Coil, 400 turns	07829-01	1

## Necessary accessories

Student set Electricity / Electronics 1 with Building Blocks, TESS advanced Physics	25264-88
Student set Electrics / Electronics 1, consumables for 10 groups, TESS advanced Physics	13471-88
Student set Electrics /Electronics 1, necessary accessories for 1 group, TESS advanced Physics	13470-88

## Recommended accessories

Carrying system for student experiment boxes	25200-00
Handbuch Schülerversuche Elektrik/Elektronik Baustein-System 1 und 2, TESS advanced Physik, (in german)	01006-01