

Student set Optics 3, Wave optics, TESS advanced Physics

Article no: 15280-88



Function and Applications

Supplementary equipment set for the sets Optics 1 (25276-88 or 15278-88) and Optics 2 (25277-88). Together with the sets Optics 1 and 2, the optional equipment TESS Optics color mixing (13250-77) and the optional accessories for Optics 3 (13465-88), it is possible to perform 96 student experiments in total:

- Interference (4 Experiments)
- Diffraction from unidimensional objects (8 Experiments)
- Diffraction from two-dimensional objects (3 Experiments)
- Resolving power (3 Experiments)
- Qualitative experiments on polarisation (6 Experiments)
- Quantitative experiments on polarisation (2 Experiments)
- Propagation of light (11 Experiments)
- Mirrors (11 Experiments)
- Refraction (10 Experiments)
- Lenses (14 Experiments)
- Colours (6 Experiments)
- The human eye (5 Experiments)
- Optical equipment (9 Experiments)
- Wave optics (4 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
- Through the use of a stable optical bench made of metal safe and exact experimental setups
- Simple teaching and efficient learning thanks to the digital experiment descriptions included as a QR code

Equipment and technical data

- The equipment set consists of all necessary components for the experiments
- Robust, stackable storage box with a foam insert fitting to the contained equipment

Scope of delivery

Lens on slide mount, f=+300mm

09820-04

2

Mount with scale on slide mount	09823-00	1
Photoelastic model	09829-00	1
Plate mount for three objects	09830-00	2
Measuring magnifier	09831-00	1
Slit, width adjustable up to 1 mm	11604-07	1
Aperture, d 0.4mm	08206-04	1
Diaphragm with single slit, bar and edge	08521-00	1
Diaphragm, 3 single slits	08522-00	1
Diaphragm, 4 double slits	08523-00	1
Diffraction grating, 4 lines/mm	08532-00	1
Diffraction grating, 8 lines/mm	08534-00	1
Diffraction grating, 10 lines/mm	08540-00	1
Measuring tape, l = 2 m	09936-00	1
Beakers, Boro, low form, various sizes	46054-00	1
Microscopic slides, 50 pcs	64691-00	1
Diaphragm, 4 multiple slits	08526-00	1
Lid for TESS box, plastic	15205-01	1
TESS box, plastics, high, 305 x 425 x 150 mm	15200-01	1

Necessary accessories

Student set Optics 1 including light box, TESS beginner Sciences	25276-88
Student set optics 1 including LED- / Laserlightsource	15278-88
TESS advanced Physics supplementary Set Colour mixing	13250-77
Student set Optics 2, TESS advanced Physics	25277-88
TESS advanced Wave Optics/Optics 3 consumables for 10 groups	13463-88

Recommended accessories

TESS advanced Optics OE 3 optional accessories for 1 group	13465-88
Carrying system for student experiment boxes	25200-00
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Handbuch Schülerversuche Optik, TESS advanced Physik, (in german)	01164-01