fischertechnik

STEM KITS | SECONDARY SCHOOL

STEM MECHANICS

Develop a solid understanding of mechanics, statics, and physics that lasts!

Through hands-on, practical work, students gain a deep understanding of mechanical and technical relationships. The set not only imparts subject knowledge but also strengthens problem-solving skills, creativity, and teamwork. Online materials provide additional information, exercises, and didactic tips for classroom use.

STEM Mechanics is suitable for both guided and open-ended lessons - ideal for STEM education from lower to upper secondary levels. It particularly appeals to students interested in technology, mechanical engineering, and related fields.

LEARNING OBJECTIVES

Understand basic mechanical principles

Analyze and apply types of transmissions

Understand statics and equilibrium of forces

Explore technical applications in daily life

Develop measurement methods and problem-solving skills

STEM MATHEMATIK INFORMATIK NATURWISSENSCHAFT TECHNIK

SCIENCE TECHNOLOGY ENGINEERING MATHEMATICS

technika

STEM Mechanics
Facts

2 - 4 students

32 models

502 components,
incl. replacement parts bag
and easy sorting

48 experiments

Incl. lever, rope winch, crank, universal joint, gear wheels, static elements, spring balance

For teachers: Free instructional materials, lesson plans, step-by-step guides, and video tutorials are available for download at fischertechnik.de/en/stem-mechanics

For students: Free task sheets and building instructions available for download at fischertechnik.de/en/stem-mechanics

Art. no.	576110
EAN	4048962549348
Dimensions (mm)	429x310x152
Weight (g)	2760

Hands-on learning concepts for regular classes
with fischertechnik education

fischertechnik education offers innovative digital and analog learning concepts for use across a wide range of subjects - from preschools and general education schools to universities and vocational training programs.

STEM (Science, Technology, Engineering, and Mathematics) content is taught in an engaging and practical way through hands-on learning concepts. This approach helps students develop essential future skills such as problem-solving, creative thinking, and social and emotional competence.

From robotics and artificial intelligence to automated, agile production simulation, and the fundamentals of renewable energy, electronics, and mechanics - the fischertechnik product range provides comprehensive solutions for teaching STEM content aligned with your curriculum.

All learning concepts include themed building kits, technical components such as motors, sensors, and controllers, as well as freely accessible instructional and training materials - including building and programming guides, lesson plans with tasks and solutions, curriculum references, and professional development resources.

For more than 60 years, our solutions have been successfully used in schools, universities, vocational education programs, and industry around the world.

More information on our learning concepts is available at:
fischertechnik.de/en/schools

FISCHERTECHNIK STEM KITS

Our **STEM kits** are designed for project-based learning and are curriculum-aligned for easy classroom use. Each kit focuses on a specific STEM topic and includes high-quality components for building models and conducting hands-on experiments.

With free **online teaching materials** - including lesson plans, learning objectives, and curriculum links - and the intuitive STEM Suite learning app for robotics sets, bringing STEM learning to life has never been easier.