**fischertechnik**

**STEM CODING | PRIMARY SCHOOL**

# STEM CODING PRO
## Learn programming hands-on in primary school

How does a traffic light work? How can I learn to program a simple drawing robot? With twelve practical models and tasks that build on one another, children learn the basics of computer science step by step. Primary school students use an easy to operate controller, a range of practical sensors and actuators, an intuitive Scratch app, and colorful fischertechnik building blocks to solve tasks they are already familiar with from their everyday lives. This hands-on, fun approach to learning helps them also build important social and emotional skills.

### LEARNING OBJECTIVES

Learn about the fundamentals of computer science and robotics

Practice Scratch programming and operate user-friendly controller

Understand the way actuators and sensors work

Practice and improve project and group work

Build social and emotional skills

**STEM**
**MINT**
M ATHEMATIK
I NFORMATIK
N ATURWISSENSCHAFT
T ECHNIK

SCIENCE   TECHNOLOGY   ENGINEERING   MATHEMATICS

**SCRATCH**

**Built on Blockly**

**CODING PRO**

# STEM Kit STEM Coding Pro
## Facts

👥 2 - 4 students

🏗 12 models

🧩 147 components,
incl. replacement parts
bag and easy sorting

🛠 36 experiments

⚙⁺ Incl. Bluetooth Smart Controller, replacement parts bag , sorting,
2x Motor + gears, 2x buttons, 2x LED light barriers, phototransistor,
NTC resistor, battery with USB-C charging port

🖥 For teachers: Instructional materials, guides to first steps
and video tutorials to download free of charge from
www.fischertechnik.de/schools

📖 For students: Task sheets and building instructions integrated into
the fischertechnik app "Coding Pro" (available for free download for
iOS, Android, Windows and macOS ).

| Art. no. | 569025 |
|---|---|
| EAN | 4048962492811 |
| Dimensions (mm) | 440x315x80 |
| Weight (g) | 1780 |

# About fischertechnik
## Hands-on learning concepts for teaching important future skills

fischertechnik offers innovative digital and analog learning concepts for use in many different subjects – in preschools, general education schools, as well as universities and vocational education. STEM (science, technology, engineering and mathematics) content is taught in an accessible and concrete way based on hands-on learning concepts. This helps students learn important future skills like problem solving, creative thinking, and emotional and social competence.

From robotics to artificial intelligence to automated, agile production simulators and the fundamentals of renewable energy sources, electronics, and mechanics – the fischertechnik product range includes solutions to teach STEM content relevant to your curriculum.

All learning concepts contain themed building kits, technical components like motors, sensors, and controllers, and freely accessible accompanying instructional and training materials, in the form of building and programming instructions, lesson plans with tasks and solutions, curriculum references and professional development.

Our solutions have been used successfully all over the world for more than 50 years in schools, universities, vocational training programs and industrial companies.

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

## FISCHERTECHNIK STEM KITS

Our **STEM Kits** are optimized for project-based work in primary and secondary schools. Each STEM kit deals with a specific technical topic from a STEM area.

The **learning concept** contains a set of of building blocks and technical components students can use to build several different models and conduct experiments. Thanks to **teaching materials available online,** incl. learning objectives, curriculum references, tasks and solutions, fischertechnik STEM kits can be easily integrated into a range of STEM subjects.