



Discover Computational Thinking hands-on with fischertechnik

The Ministry of Education in Baden-Württemberg, Germany will equip a total of 404 schools with specific „ComThink“ class sets in the years 2025 and 2026.



COMPUTATIONAL THINKING

This principle is becoming a key mindset in modern education, equipping teachers and students with innovative strategies to approach and solve complex problems across a range of subjects. In doing so, it fosters students' confidence and nurtures a genuine interest in digital technologies

Content of a „ComThink“ class set:

- 12 x STEM Coding Max incl. fischertechnik app „STEM Suite“
- 12 x STEM Simple Machines
- 1 x Creative Box with many fischertechnik elements
- Detailed lesson plans for teachers
- Comprehensive teacher training provided by the State Media Center Baden-Württemberg



Fig. 1: „ComThink“ Class Set

Find more information about the project here:
www.lmz-bw.de/comthink/materialien

Further information and materials




Blockly

SCRATCH

 python



PERFECT FOR INTEGRATION INTO STANDARD STEM CURRICULUM



Real-world Tasks
& Engaging
Storytelling



Step-by-Step
Learning
Approach



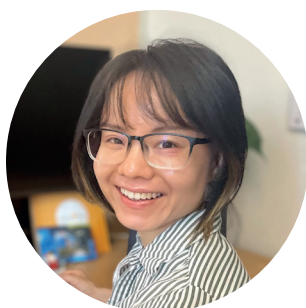
Detailed
Instructions in
Interactive App



Comprehensive
Lesson Plans
based on 4Cs



Content for
Computer Science,
Math, Physics and
Future Skills



We chose fischertechnik because the realistic construction models with technical authenticity provide exactly what we need for our innovation project in the field of computational thinking. The hands-on models make it easy for learners to learn problem solving strategies and think in complex systems, applying them directly to tangible, realistic models. This concept convinces us because it not only promotes understanding but also makes learning fun and strengthens learners' skills in a sustainable way.

Juanjuan Jia, Project Lead Computational Thinking
State Media Center Baden-Württemberg

With the possibilities that fischertechnik offers, we have the freedom to make engineering tangible and experienceable during learning hours. The connection of mechanical, electrical, and digital challenges enables the development of solid foundational knowledge and promotes multifaceted problem-solving skills. Young people have the opportunity to develop practical solutions together and optimally utilize learning time for areas like technology, computer science, physics, art, and mathematics.

Silke Schick, Project Lead Computational Thinking
State Media Center Baden-Württemberg



STEM Coding Max

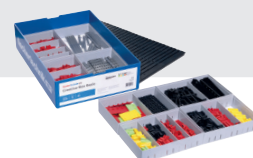
- 2 - 4 students
- 243 parts incl. spare parts and easy re-sorting template
- 11 + 4 models with 42+ hours of learning
- Incl. RX Controller, 2x motors, 4x buttons, 3x LED, color/gesture/distance/brightness sensor, reed contact, 9V re-chargeable battery and USB-C port



STEM Simple Machines

- 2 - 4 students
- 350 parts incl. spare parts and easy re-sorting template
- 14 models
- Including ropes, pulleys, gears, axles, and threads

+ Creative Box



fischertechnik

Find more information about our learning solutions here: fischertechnik.de/en/schools

Klett MEX