

"Last year our students made over a million attempts at STACK questions. STACK gives our distance learning students an unprecedented opportunity to practice mathematics with immediate feedback and guidance." Dr Tim Lowe, The Open University, UK



"I put computer algebra and mathematics at the heart of STACK to give students the best possible feedback."

Professor Chris Sangwin, project founder



Why choose STACK?

- Full worked solutions, based on random versions
- Multi-part questions guide students through complex processes
- Embed plots, graphics and videos
- Full support for scientific units
- ✤ Assess line by line reasoning
- Comprehensive authoring and testing interface
- ✤ All attempts stored for analysis

Built by mathematics educators for their teaching

Open source: no licence fees, no vendor lock-in

Key innovations in STACK

- STACK separates "validity" feedback from "assessment" feedback. Students always get validity feedback, even in an exam, helping them understand what a question expects.
- 2 Feedback is based on computer algebra calculations, providing specific information on how to improve on the task.
- 3 Randomly generated questions, supported by unit testing, to ensure quality before students try them.
- 4 STACK community contributes user-support, innovations, materials and multi-languages.





Open materials, user consortiums to share materials, and commercial partners

Native support: Embed:



campus systems

ILIAS

Native API for developers and commercial partners

STACK works seamlessly with other question types in quizzes, reducing the number of separate assessment systems.

♦ Over 650 Moodle sites use STACK

✤ Large ILIAS community

Flexible integration

Translated into many languages,
e.g. Finnish, German, French, Spanish,
Portuguese, Hebrew and Japanese.







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ABACUS materials bank:

https://abacus.aalto.fi/



STACK community

Development team

Continuously developed and used since 2004



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