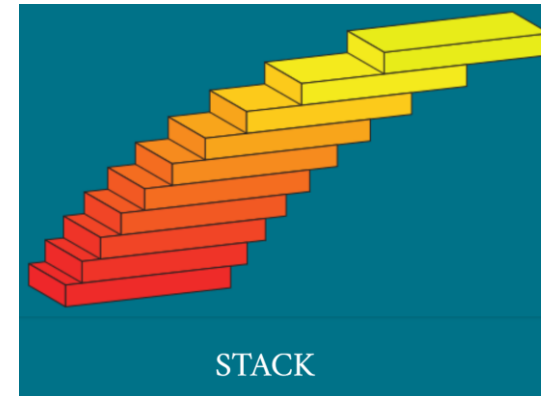# WEBINAR on STACK Tasks – Construction and Implementation

May 20, 2024

STACK | The University of Edinburgh

STACK

What STACK does

STACK (the **S**ystem for **T**eaching and **A**ssessment using a **C**omputer algebra **K**ernel) is an online assessment package for mathematics. This open-source system helps you build sophisticated assessments for STEM which challenge your students and provides feedback to help them improve their performance and understanding.

- STACK demonstration site
- STACK questions include:
  - Full algebraic input with validation and feedback
  - Multi-choice questions
  - Line by line reasoning
  - Dimensional numerical quantities

Why use STACK

- Mathematical sophistication enables helpful feedback
- Forgiving input mechanism separates "validity" from "correctness"
- Reliability
- Scales to large groups
- Integration with learning management systems
- Large user community and available resource banks
- Open source

Pythagoras

Program

- STACK presentation with examples from the project Pythagoras

- Invited talk: ***Examples of STACK tasks***
  ## George Kinnear - University of Edinburgh
  - expert in creation and implementation of STACK tasks

- Direct construction of STACK tasks

- Webinar feedback (EVM):
  https://docs.google.com/forms/d/e/1FAIpQLSdEKhhV2Vbl6eVMiLsktYWthyREGU mQ09BbR2nT0TXZum0Qgg/viewform?pli=1

Pythagoras

Let's start the workshop…

Pythagoras