

Bridge Building Challenge

Ages 6–12 · 30–40 min · Small group

Learning intention

This experience supports children to solve problems through engineering thinking and to persist and show resilience when designs fail.

You'll need

- Building bricks
- Small weights or toys to test the bridge
- Optional pop sticks

How to do it

1. Set the challenge: build a bridge that holds an object without collapsing.
2. Children plan, then build, testing stability as they go.
3. Add weight gradually to see how much each bridge holds.
4. Discuss what made the strongest designs work and rebuild to improve.

Framework links

MTOP

- **4.2** Children and young people develop a range of learning and thinking skills and processes such as problem solving, inquiry, experimentation, hypothesising, researching and investigating
- **1.2** Children and young people develop their autonomy, interdependence, resilience and agency

NQS

- **1.2.2** Responsive teaching and scaffolding - Educators respond to children's ideas and play and extend children's learning through open-ended questions, interactions and feedback.

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