



Linked learning theme: Extreme Earth

Autumn term, Year 6

Design & Technology – Earthquake-proof buildings

Prior knowledge

In lower KS2, children have made structural products. They have made picture frames and pop-up books and thought about how to make them structurally strong.

Core knowledge

- Triangles create a bracing system.
- The distance between two points of contact impacts strength.
- Flexibility is key in preventing things from breaking

Key skills

- Research current building designs from a range of countries.
- Sketch designs of buildings.
- Create prototypes using simple designs and materials and evaluate effectiveness.
- Use an iterative process to create a final design.
- Produce a final product, using prototype evaluations to guide final process.

Vocabulary	Flexibility	Iterative process	Product
Bracing	Forces	Point of contact	Prototype
Design	Functionality	Problem	Solution
Design decisions	Innovation		

Learning Outcome

- I can identify user and purpose.
- I can record ideas using annotated diagrams including exploded or cross-sectional diagrams.
- I can select and use a wide range of tools and materials accurately.
- I can refine my product – review and rework.
- I can discuss how well the finished product meets the needs of the user.