

Structures Activity Challenge Colouring Page

KS1 / Year 2 - Design Technology

Find five strengthening features in the model playground tower: wide base, triangle brace, cross-brace, folded beam and buttress.



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Parent & Teacher Guidance

Curriculum focus

Topic: Structures. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: KS1 Design and Technology technical knowledge: building structures and exploring how they can be made stronger, stiffer and more stable..

Before you begin

Review the picture together and ask the learner what they already notice about Structures. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Structures. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Structures can you explain using the picture?

Answers and checking

Wide base: beneath the tower. Triangle brace: under the platform. Cross-brace: on the back frame. Folded beam: beneath the bridge walkway. Buttress: against the side wall. Discuss how each feature may improve strength, stiffness or stability; practical models should still be tested.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
