

YEAR 2:
Design Technology:
Free-standing structures
Castles

What I should already know

How to explore and use construction kits.
Develop practical skills and techniques using a range of materials and construction materials.

By the end of this unit:

Follow procedures for safety.
Use a range of materials and components to construct.
Measure, mark out, cut and shape out materials and components.
Assemble, join and combine materials and components.
Know how free-standing structures can be made stronger, stiffer and more stable.

Design Criteria:

I am making a castle for a king that has a moveable drawbridge to keep safe from attacks.

Health and safety

Always use safety round-headed scissors and supervise pupils appropriately during the activity.
Using PVA glue: use only water-based products and wash hands after use.
Using glue guns: use only cool melt glue guns and always under adult supervision.
Turn off glue guns if not used for 30 minutes or more.



| <u>Vocabulary</u> | |
|--------------------------|--|
| Assemble | Fit together the separate component parts of an object |
| Castle | Large building fortified against attack with thick walls, battlements, towers, moat and drawbridge |
| Component | Part of a larger model or machine |
| Construct | Build or make something |
| Fit for purpose | Well equipped or well suited for its role or purpose |
| Free-standing | Not attached or supported by another structure |
| Glue guns | Device which melts glue sticks. The glue will be stronger and dry quickly. |
| Measure | To use a ruler to make sure the measurements for each component are accurate and fit together |
| Moveable | A part of the model which is capable of being moved |
| Plan | A detailed proposal or design for the model to be built |
| PVA glue | Liquid glue that is safe for children to use |
| Strengthen | Make stronger |