



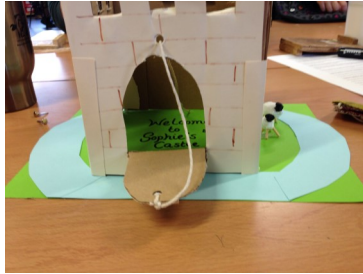
YEAR 2:
Design Technology:
Free-standing structures
Castles

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.

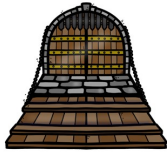
By the end of this unit:
Follow procedures for safety.
Use a range of materials and components to construct.
Measure, mark out, cut and shape out materials and components.
Assemble, join and combine materials and components.
Know how free-standing structures can be made stronger, stiffer and more stable.

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

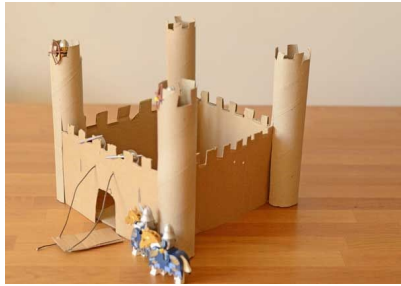
Health and safety
Always use safety round-headed scissors and supervise pupils appropriately during the activity.
Using PVA glue: use only water-based products and wash hands after use.
Using glue guns: use only cool melt glue guns and always under adult supervision.
Turn off glue guns if not used for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



drawbridge



A drawbridge is a wooden bridge across a moat or pit that can be lowered or raised making crossing impossible. The purpose of a drawbridge was to prevent easy entry into a castle.



Vocabulary

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