

## DT

## Constructing a castle

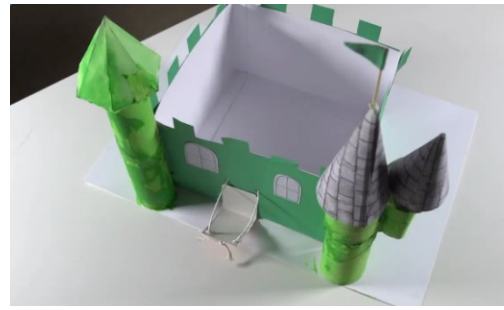
## Year 3

### What I should already know

- Identify man-made and natural structures.
- Identify stable and unstable structural shapes.
- Contribute to discussions.
- Identify features that make a chair stable.
- Work independently to make a stable structure, following a demonstration.
- Produce a model that supports a teddy, using the appropriate materials and

### Technical skills

- Designing a castle with key features to apply to a model.
- Making a model strong, stiff and stable.
- Drawing and labelling a castle design using 2D shapes.
- Designing and/or decorating a castle tower on CAD software.
- Constructing a range of 3D geometric shapes using nets.
- Creating special features for individual designs.
- Making facades from a range of recycled materials.
- Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design.



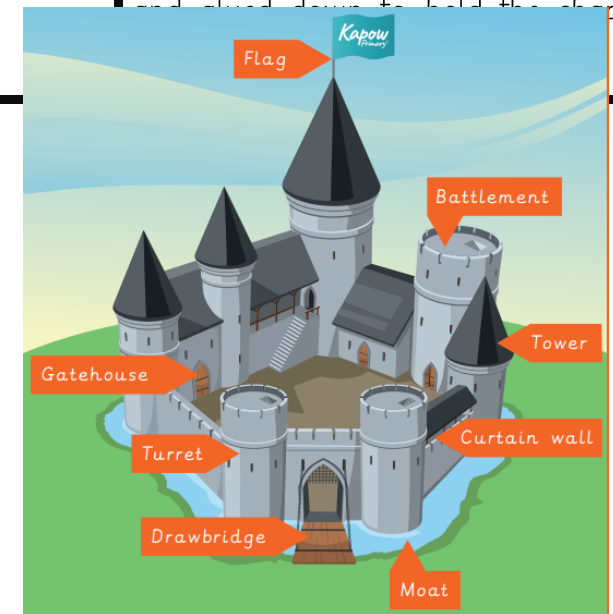
### Sticky Knowledge

- To understand that wide and flat based objects are more stable.
- To understand the importance of strength and stiffness in structures.
- To know the following features of a castle: flags, towers, battlements, turrets, curtain walls, moat, draw-bridge and gatehouse - and their purpose.
- To know that the facade is the front of a structure.
- To understand that a castle is a fortified building.



### Vocabulary

Façade	The front of a structure
Feature	A specific part of something
Net	A 2D flat shape that becomes a 3D shape when assembled
Scoring	Scratching a line with a sharp object into card to make the card easier to bend
Tab	The small tabs on a net that are bent and glued down to hold the shape together



adaptation cook cross-contamination farm hygiene ingredients label nutrient nutritional value  
process The process of changing something. To prepare food by heating it. When something  
harmful spreads from one food to another. To grow crops or keep animals as a business. Keep-  
ing things clean to prevent illness. The foods a recipe is made from. Something that provides  
information about the product it is attached to. Substances that help living things stay healthy  
and grow. The nutrients a food or recipe provides. A series of actions.