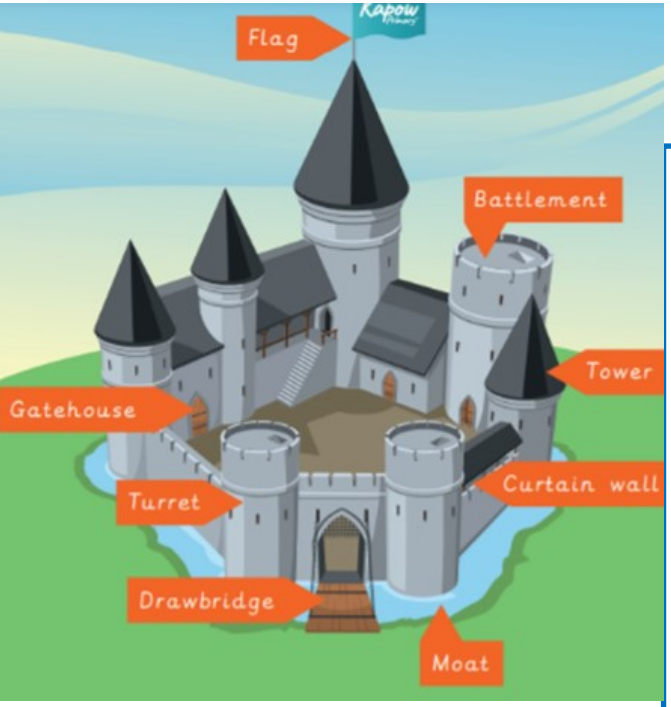
Y3— Mechanisms—Pneumatic Toys



What I will know:

- I will be able to identify different features of castles.
- I will be able to design and label my own castle using 2D shape labels.
- I will be able to add design points to a Design Specification.
- I will understand nets and construct a range of 3D shapes using nets by cutting, folding and constructing.
- I will be able to construct my castle to meet the requirements of my brief using nets, stacking shapes and materials, creating a castle base and adorning my castle with decorate features.

Vocabulary

2D shapes—Flat objects with 2—dimensions such as square, rectangle and circle.

3D shapes—Solid objects with 3—dimensions such as cube, oblong and sphere.

Castle—A type of building that used to be built hundreds of years ago to defend land and be a home for Kings and Queens and other rich people.

Façade—The front of a structure.

Feature—A specific part of something.

Flag—A piece of cloth used as a decoration or to represent a country or symbol.

Net—A 2D flat shape that can become a 3D shape.

Recyclable—Material or an object that when no longer wanted or needed can be made into something else.

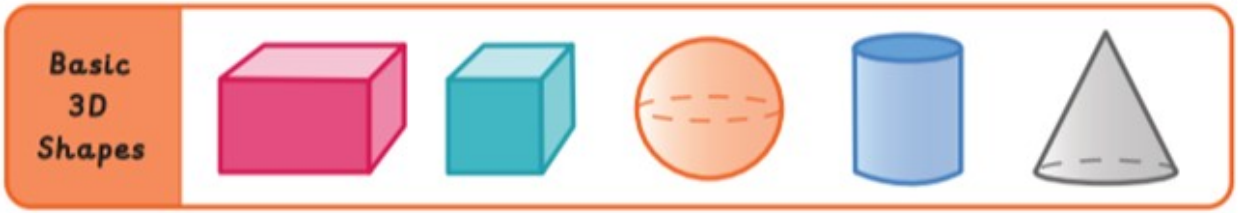
Scoring—Scratching a line with a sharp object into card to make the card easier to bend.

Stable—Object does not easilt topple over.

Strong—It doesn't breqak easily.

Structure—Soemthing which stands usually on its own.

Tab—The small tabs on the net template that are bent and glued down to hold the shape together.



Did you know?

Windsor Castle is the largest castle in England.

It is one of the three homes owned by Queen Elizabeth II.

What I already know:

- design purposeful, functional, appealing products for themselves and other users based on design criteria.
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.
- select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing].
- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics
- explore and evaluate a range of existing products.
- evaluate their ideas and products against design criteria Technical knowledge.
- build structures, exploring how they can be made stronger, stiffer and more stable.