

Master Techniques

Learn and practice the skills required to research, design, make and evaluate a high quality product.

Take Inspiration

Explore objects and designs to identify likes and dislike.

Suggest improvements to existing designs.

Explore how products have been created.

Develop Ideas

Develop the process of design thinking.

- Think
- Explore
- Make
- Evaluate

Design

A plan/ drawing produced to represent the appearance and

Technology

Technology is science or knowledge used to solve problems or invent useful tools.

Functionality

Functionality refers to whether a design works and helps the users meet their goals and needs.

function of a building, garment, or other object.	Technical knowledge The specialist knowledge needed to produce an object efficiently	
Innovation Innovation has to include the concept of improvement; to innovate is not just to do something differently, but to do or make something better.	Evaluate To suggest or make improvements to an object or design.	Food and nutrition An example of nutrition is eating a healthy diet.

Key concepts

- Structures – a combination of materials to create a 3D shape.
- Mechanisms – a device used to create movement.
- Electronics – using electronics to power movement, light or noise.
- Food and nutrition – the application of food science to the designing of a food product.