

Saxon Footwear



Domain of Knowledge: Product design

Focus Skill: Textiles—Sewing

Design Process:

Explore and Plan



Design



Create



Evaluate

Key Vocabulary

Pattern —. A template from which parts of a garment are cut out.

Piece—a single piece of a pattern.

Stitch— a turn or loop of thread or yarn.

embellishment— a decorative detail or feature to make it more

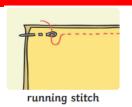
Key Skills

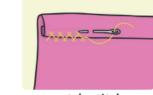
Measuring—Accurate measurement of pattern to ensure the pieces fit together.

Joining—Using an appropriate stitch to join pieces of a pattern securely.

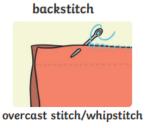
Testing— Does the shoe hold together with no gaps or holes?

Diagram









Real Life Image



Linked Engineer

William Lennon & Co.

Derbyshire boot makers.



Fairground Models



Domain of Knowledge: Product Design

Focus Skill: Moving Mechanical Structures.

Design Process:

Innovate



Plan and Design



Create



Evaluate

Key Vocabulary

Stable Structure—An object that holds it shape.

Simple Circuit—A circuit with one loop. (Switch operated)

Pulley—Equipment for changing the direction of a force.

Gear—A toothed wheel that can alter speed in components.

Key Skills

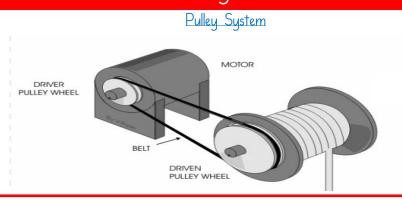
Balancing—Ensuring the motion is equal and smooth.

Measuring-Ensuring all materials are sized accurately.

Drive—Appropriate power to moving components.

Testing— Does it power on and move correctly?

Diagram



Real Life Image



Steam Gallopers / Carousel Howards Funfair, Derbyshire.

Linked Engineer



Oscar Banker (1965-Armenia) Inventor of the automatic gearbox.



Food on a Budget

Y 5/6 5

Domain of Knowledge: Food Design

Focus Skill: Preparation and Portions

Design Process:

Explore and Plan



Design



Create



Evaluate

Key Vocabulary

Budget—A small food product (not a main meal).

Costing—How much items cost (in total)

Profit—A positive return on the cost (if sold).

Portion—A suitable serving size.

Key Skills

Portioning—Creating an appropriate serving size.

Measuring-Identifying the weight of an ingredient.

Estimating—A sensible guess for an appropriate size.

Sampling— Testing the flavour of the ingredients.

Diagram

Portion size —a guide to creating a rough estimate for measuring ingredients.



Real Life Image



Rationed Plate

How a budget/ration looked in WW2

Eatwell Plate



Main Food Groups

Showing suggested proportions



Victorian CAM toy



Domain of Knowledge: Product design

Focus Skill: Computer aided design

Design Process:

Explore and Plan



Design



Create



Evaluate

Key Vocabulary

Cam toys—Toys that use hand powered mechanisms to create cylindrical motions that move an object.

Cams— Covert and ordinary rotation into a more complicated pattern of motion

Follower —. The rotating part of a mechanism that follows the movement of the cam by direct contact.

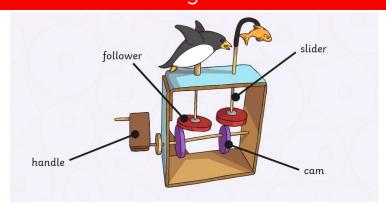
Key Skills

Explore—Use different shaped cams nd explore how these change the movement of the toy.

Computer Aided Design—Using computer aided design to create one element of the design

Testing— Does the toy move as expected.

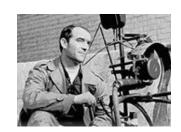
Diagram



Real Life Image



Linked Engineer



Jean Tinguely—kinetic artist