

Shell Structure

Prior Learning:

Pupils have explored joining and constructing with different materials in EYFS and Key Stage 1, developing basic cutting, folding and assembling skills. They have investigated simple structures and learned that products are designed for a purpose, giving them an understanding of how materials and shapes can be used to create functional objects.

Key Vocabulary

Shell structures	A thin outer layer designed to hold or protect something.
Face	A flat or curved surface on a three-dimensional (3D) shape.
Edge	The line segment where two faces of a 3D shape meet.
Prototype	An early example of a product, or draft model before a final product is created.

Key Inventor

Huntley & Palmers created the first protective tin to transport biscuits so they didn't break or become stale.



Key Learning

What is a shell structure, and why is packaging important?

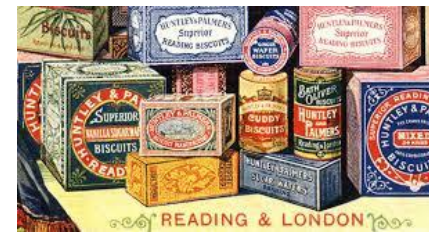
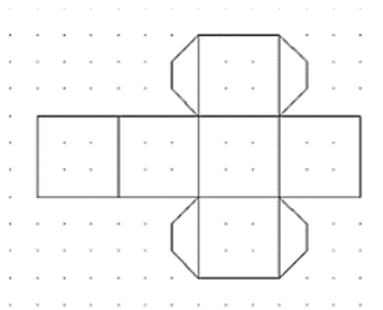
How do nets become 3D packaging structures?

How can we make packaging stronger and more effective?

What makes a successful biscuit box for a Diwali gift?

How can we accurately measure, make, and decorate our biscuit box?

How well does our biscuit box meet the design criteria?



Visual Vocabulary



Yeast is a living, single-celled fungus. Through the process of fermentation, it feeds on sugars, converting them into carbon dioxide gas and alcohol. It is a vital ingredient in baking.



A recipe is a set of instructions on how to cook or bake a certain dish.



Utensils are handy tools used in a kitchen to prepare, cook, or eat food.

The Big Question

How can we design and make a strong, attractive, and sustainable biscuit box that protects a Diwali gift?

Cross Curricular Links

Mutual respect