

Newquay Primary Academy – Design and technology Summer Term 1 Sequence



YEAR 3

Prior knowledge...
Pupils can:
Name the main food groups and identify foods that belong to each group.
Describe the taste, texture and smell of a given food.
Think of four different wrap ideas, considering flavour combinations.
Construct a wrap that meets the design brief and their plan.

YEAR 4

Prior knowledge...
Pupils can:
Explain that fruits and vegetables grow in different countries based on their climates.
Understand that 'seasonal' fruits and vegetables are those that grow in a given season and taste best then.
Know that eating seasonal fruit and vegetables has a positive effect on the environment.
Design their own tart recipe using seasonal ingredients.
Understand the basic rules of food hygiene and safety.
Follow the instructions within a recipe.

YEAR 5

Prior knowledge...
Pupils can:
Produce a range of free-standing frame structures of different shapes and sizes.
Design a pavilion that is strong, stable and aesthetically pleasing.
Select appropriate materials and construction techniques to create a stable, free-standing frame structure.
Select appropriate materials and techniques when constructing

YEAR 6

Prior knowledge...
Pupils can:
Design to meet a brief and develop ideas.
Understand that a mechanism is a system of parts working together to control a motion.
Work safely when handling tools
Measure accuracy using mm.
Cut with a good degree of accuracy.
Finish a product to a good standard.

INTENT

Food: Eating seasonally
Pupils will understand the term 'seasonal' and understand that eating seasonal fruit and vegetables has a positive effect on the environment. Students will design their own seasonal recipe using seasonal ingredients.

Food: Adapting a recipe - Sushi
Pupils will explore the different categories of sushi and its historical roots. Pupils will design and make their own sushi.

Structures: Bridges
Pupils will learn and investigate the different types of bridges and what features allow them to support a large amount of weight. Children design, make and evaluate their own truss bridge.

Textiles: Stuffed toys
Pupils will design and make a stuffed toy using blanket stitches and applique.

VOCABULARY / STICKY KNOWLEDGE

Climate, exported, imported, mediterranean climate, nationality, nutrients, polar climate, recipe, seasonal food, seasons, temperate climate, tropical climate

Sushi, traditional, Japanese, vinegared rice, seasoned, seafood, raw, toppings, fillings

beam bridge, arch bridge, truss bridge, strength, technique, corrugation, lamination, stiffness, rigid, stability, visual appeal, aesthetics, joints

Accurate, annotate, appendage, blanket-stitch, design criteria, detail, evaluation, fabric, sew, shape, stuffed toy, stuffing, template

SEQUENCE OF LESSONS

Lesson 1: Where in the world?

To know that climate affects food growth

Lesson 2: British seasonal foods

To understand the advantages of eating seasonal foods grown in the UK

Lesson 3: Rainbow food

To create a recipe that is healthy and nutritious using seasonal vegetables

Lesson 4: Making tarts

To safely follow a recipe when cooking

Lesson 1: What is sushi?

To learn the different categories of sushi and explore its historical roots.

Lesson 2: Design

To design sushi following a design brief

Lesson 3: Making sushi

To prepare a sushi recipe using traditional techniques

Lesson 4: Evaluation

To evaluate sushi against relevant criteria

Lesson 1: Arch and beam bridges

To explore how to reinforce a beam (structure) to improve its strength

Lesson 2: Spaghetti truss bridges

To build a spaghetti truss bridge

Lesson 3: Building bridges

To build a wooden truss bridge

Lesson 4: Finalising bridges

To complete, reinforce and evaluate my truss bridge

Lesson 1: Designing a stuffed toy

To design a stuffed toy.

Lesson 2: Blanket stitch

To sew a blanket stitch.

Lesson 3: Details and appendages

To create and add decorations to fabric.

Lesson 4: Stuffed toy assembly

To use a blanket stitch to assemble the components of a stuffed toy.

OUTCOME / COMPOSITE

To have made a seasonal meal using fruit. To celebrate and share their meal with a friend or family member.

To make sushi using traditional techniques. To share their sushi meal.

Children make a truss bridge out of softwood. Children test and evaluate their structure.

Children make their own stuffed toy which will be gifted as a present to their targeted user, or as an item to sell at the Summer fayre.