

Design Technology

Year 1

Term by Term Coverage

Fairisle Infant and Nursery School



Expect Success

Spring 1: Super Heroes to the rescue!

Can you design and make a playground?

By the end of this half term, children should know how:

- to identify structures that are stable and unstable.
- to make a freestanding structure stronger, stiffer and more stable.
- the shape of a structure affects its strength.
- to use tools safely e.g. scissors.
- to measure, mark out, cut and shape a range of materials with help.
- To talk about what has worked well and what I could be improved.

Vocabulary:

Weak: Not having much strength or physical power.

Strong: Having or showing great strength or power.

Stiff: Not easy to bend.

Structure: Something that is made of parts fixed together.

Stable: Fixed or steady.

Unstable: unsteady, may change, wobble or fall.

Free standing: Something that stands alone, not fixed to a wall.



Autumn 2: Once upon a time

Can you use levers and sliders to make a moving picture?

By the end of this half term, children should know:

- how to generate ideas based on a simple design criteria
- that levers and sliders are mechanisms that make things move and how to make them move.
- whether a mechanism is a lever or a slider
- how to describe a movement

Vocabulary:

Lever: a rigid bar which moves around a pivot.

Slider: a rigid bar which moves backwards and forwards along a straight line.

Mechanism: a device used to create a movement in a product.

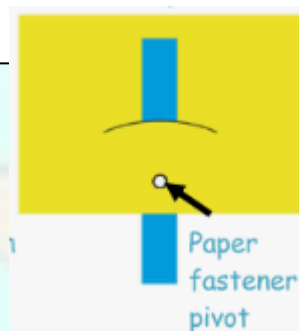
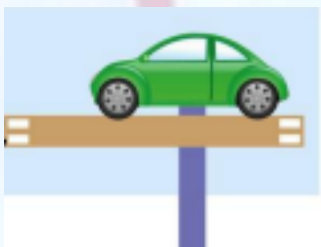
Vertical: in an up and down direction or position.

Horizontal: in a side to side direction or position.

Pivot: a fixed part that holds a lever in place as it turns

Slot: the hole through which a lever or slider sits to allow part of the picture to move

Guide: a small strip of card which helps keep the slider in place.



Summer 2: Healthy Fun!

Can you design and make fruit kebabs?

By the end of this half term, children should know how to:

- identify the difference between fruits and vegetables.
- describe the texture and taste of some fruits.
- chop some fruits safely.
- follow safe procedures for food safety and hygiene.
- follow my design to make my fruit kebab.

Vocabulary:

Fruit: part of the plant that contains the seed.

Vegetable: part of a plant that is used for food.

Sour: bitter or tart taste.

Seed: part of the plant used to grow a new plant.

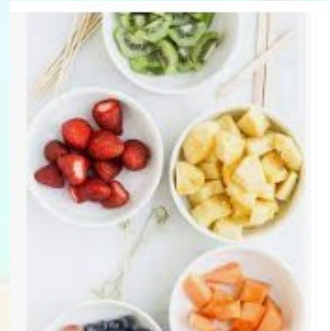
Pip: small fruit seed.

Peel: take off outer layer.

Slice: to cut into pieces.

Pith: the soft white lining inside fruit such as oranges.

Kebab: cooking and/or fresh ingredients on a skewer.



Summer 2: Once upon a time

Can you make a stable, freestanding castle?

By the end of this half term, children should know how:

- to build a free standing structure that meets the design brief
- to make a freestanding structure stronger, stiffer and more stable
- to join and combine materials and parts in a variety of ways
- to create a 'card hinge' using a fold.

Vocabulary:

Joint: where two or more parts are held together

Hinge: a joint that holds two pieces together and allows them to move.

Tower: a tall, narrow building or part of building that rises high above the ground.

Structure: Something that is made of parts fixed together.

Stiff: Not easy to bend.

Stable: Fixed or steady.

