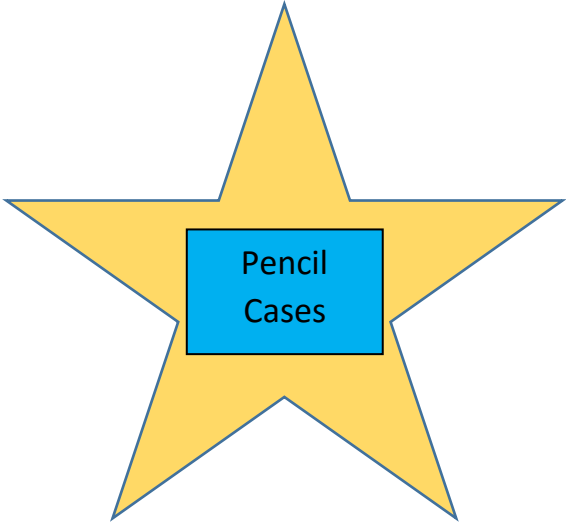


Autumn 1 Term Year 4 DT Overview



Key facts

Children will learn to:

- **Identify** how pencil cases are made and describe what features they have.
- **practise** and compare sewing stitches.
- **Describe** how to secure a button fastening.
- **Explain** different ways of adding embellishments to fabric.
- **Apply skills** to design a pencil case
- **make and evaluate** a pencil case based on a design.

Prior Knowledge

Children may have had some experience of sewing from activities at home or from Friendly Friday groups in previous years.

They will have experience of measuring and cutting materials from the year 2 Puppets unit.

Key Vocabulary

- Seam
- Reinforce
- Stitch
- Hem
- Pins
- Needles
- Thread
- Fastenings
- Template
- Fabric allowance
- Wadding
- Pinking shears

Brief summary/ overview

Children compare and identify components of pencil cases.

They will learn to sew a simple running stitch, back stitch and whip stitch.

After investigating ways of fastening and embellishing their pencil cases they will input their own ideas into their design.

Using their new skills and their design the children will make a pencil case and evaluate their work.

Resources

- Needle and thread
- Fabric and fasteners
- Variety of pencil cases to investigate
- Cutting tools
- Appropriate tools
- Measuring tools

Cross curricular links/visits

English - writing a clear, fair and accurate evaluation

Maths – accurate measuring skills

Key facts

Children will learn to:

- **Identify** the purpose of illuminated signs and describe what features they have.
- **Practise** creating simple circuits.
- **Construct** a simple circuit that can be hidden.
- **Design** an illuminated sign with a purpose.
- **Apply skills** to create a housing for the circuit.
- **make and evaluate** a light up sign based on a design.

Resources

- Illuminating signs
- Circuit components
- Tracing paper
- Heat sealer
- Card/paper
- Box/carton/container

Spring 1 Term Year 4 DT Overview

Light up signs

Brief summary/ overview

Children will investigate and analyse illuminated signs.

They will discuss and investigate circuits and different types of bulb.

After investigating ways of hiding a circuit they will design their decorative illuminated sign and select the appropriate tools.

Using their new skills and their design the children will make a light up sign and evaluate their work.

Prior Knowledge

Children will have learnt about circuits and bulbs during the science topic the previous half term.

They will have experience of measuring and cutting materials from earlier years projects.

The children will have had experience of coding from their IT curriculum.

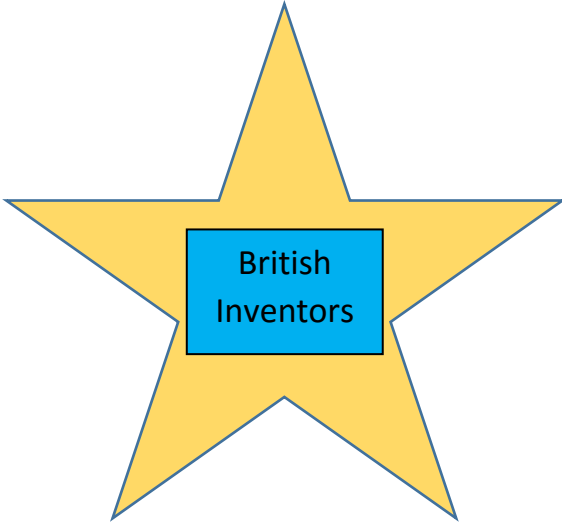
Key Vocabulary

- Light
- Bulb
- Circuit
- Illuminate
- Component
- Coding
- Algorithm
- Electrical
- Microcomputer
- Purpose

Cross curricular links/visits

Science – Electricity and circuits

Summer 2 Term Year 4 DT Overview



Brief summary/ overview

Children will investigate and reflect on inventions made by British inventors.

They will identify and discuss the way these inventions have changed their lives and the world.

After investigating these inventions they can suggest ways to reinforce materials or create a waterproof fabric using their new found knowledge.

Using their new skills and knowledge children will design a new creation to solve an everyday problem.

Prior Knowledge

Children will have learnt about Inventions during the History topic on the Victorians.

They will have experience of measuring and cutting materials from earlier years projects.

Children will have learnt of/used a string telephone during a year 4 science unit.

Key Vocabulary

- Invention
- Impact
- Communication
- Telephone
- World Wide Web
- Internet
- Waterproof
- Mackintosh
- Concrete
- Reinforced

Cross curricular links/visits

History – The Victorians
Science – Sound unit

Key facts

Children will learn to:

- **Investigate** the way in which the invention of the telephone changed the way people lived.
- **Distinguish** between the WW1 and the internet
- **Reflect** on how the WW1 has changed our lives
- **Explore** how the invention of reinforced concrete works.
- **Investigate** the invention of the Mackintosh – waterproof fabrics
- **Reflect** on the impact that inventions have had on our lives.
- **Design** a new creation intended to solve an everyday problem.

Resources

- String/Cardboard cups
- Modroc/cocktail sticks
- Masking tape
- Card/paper
- Wax crayons, Sellotape, hair spray, poli pockets
- Waterproof coat