

Year 5 – Spring

Unit of work:

A standalone project, harnessing pupils' interest in mobile technology and providing scope for discussion of the development of technology (links to computing) and design aesthetics.

DT Knowledge Organiser

Creating a felt phone case

Key Vocabulary:

Design criteria
Design process
Aesthetics
Functional
Specification
Annotate
Pattern
Template
Prototype
Whipstitch – see below
Backstitch – see below
running stitch – see below
blanket stitch – see below
Evaluation Process

Mobile Accessories and cases:

Cases, which are designed to attach to, support, or otherwise hold a smartphone, are popular accessories. Case measures are based on the display inches (e.g. 5 inch display)

There are different types: pouches and sleeves / holsters / shells / skins / fitted cases / bumpers / flip cases and wallets / screen protection and body films / drop and shock protection / leather case / cases with integrated kick stands. Holsters are commonly used alone for devices that include rubberised padding, and/or are made of plastic and without exposed rigid corners. Heavy duty cases are designed to protect from drops and scratches. A standing (or kickstand) case keeps the device standing upright. Folio cases are a combination of a case and stand, and may include a keyboard (USB for OTG smartphones or Bluetooth keyboard). Skins and design covers can serve for protection and personalisation.

Mobile phone history for discussion with pupils:

MOBILE PHONE - A mobile phone, cellular phone, cellphone, handphone, or hand phone, sometimes shortened to simply mobile, cell or just phone, is a portable telephone that can make and receive calls over a radio frequency link while the user is moving within a telephone service area. The first mobile phone was invented in 1973.

Mobile phones through the ages



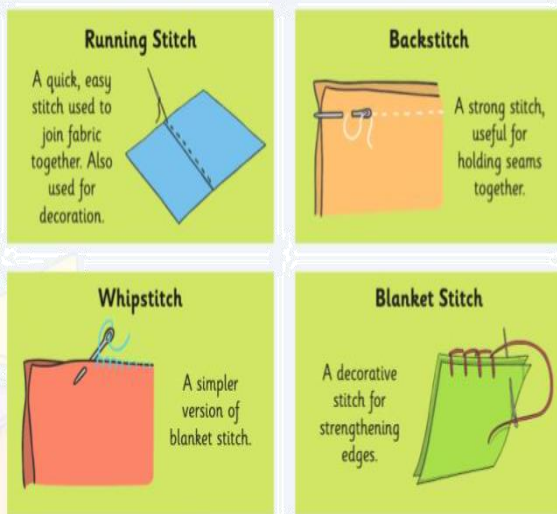
Assessment criteria

- Develop own design criteria.
- Use backstitch.
- Create simple patterns.
- Aim the design criteria at a target market.
- Use at least two different types of stitches.
- Create an accurate paper template.
- Measure and mark a sewing and cutting line
- Prioritise the most important points from the design criteria.
- Use a combination of different stitches.
- Create accurate paper templates for both the phone case and decoration.
- Demonstrate precision when measuring and cutting



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Examples of felt phone cases



Brief Lesson Sequence

1	Devise design criteria for a felt phone case.
2	Generate a range of design ideas and a final design.
3	Make a paper template of the final design.
4	Practise different stitches and choose the best for the case
5	Embellish completed case with additional design elements
6	Evaluate finished design and peer evaluate others designs. Write a formal evaluation and next steps