ADVANCED TEXTILES — DESIGN TECHNOLOGY

YEAR 9

TERM 2



		Cothedral
7. E-TEXTILES	8. SEWING MACHINES	8. SEWING MACHINES
E-Textiles is a process of including electronics within a textiles product. Eg. Lights with a jumper.	Industrial—Relating to or characterized by industry.	A presser foot is an attachment used with sewing machines to hold fabric flat as it is fed through the machine and stitched .
When creating this within a product an electrical circuit must be made. This is made by stitching with conductive thread to allow the current to pass from the battery to the LED light. Stitches serve a purpose when using conductive thread.	A sewing machine is a machine with a mechanically driven needle for sewing or stitching fabrics together. The parts of a sewing machine are:	The function of the sewing machine needle is to produce a hole in the material for the thread to pass through and to do so without causing any damage to the material.
If there is a break in the stitching the electrical current will not continue. Resulting in an unsuccessful circuit.	the needle, the presser foot, the presser food lever, bobbin (spool), bobbin (spool) case, reverse, handwheel (dial), feed dogs (teeth). Sewing machines use a different method of stitching to that	A bobbin is the part of a sewing machine on where the lower thread is located. The machine makes a stitch by catching the bottom thread, from the bobbin , with the top thread, from the needle.
The equipment you would use for sewing is a needle, thread, fabric and scissors. The hole in the needle where you insert the thread is called the eye of the needle.	completed by hand. The stitch used by hand is called a saddle stitch, the stitch used by sewing machine is called a lack stitch. A saddle stitch involves threads being passed back and forth each	The act of using a reverse stitch is called backstitching. Backstitching is achieved by sewing at the beginning and end of a seam back and forth, on top of the seam stitches, to keep the stitching from being unravelled.
You should always use an arm's length of thread to stop unwanted knots being made. Running stitch is the stitch you would use to join fabrics	hole. A lock stich involves threads being interlocked in the middle of stitching by two separate threads.	Domestic machines are designed to be used for a couple of hours at a time, and the user is able to stop and start a project easily Industrial machines are designed for a more heavy-duty workload; being able to run for longer hours and
together. The stitch goes <u>in and out</u> of the fabric. You start at the back (wrong side) of the fabric.	Both hand and machine stitches can be both decorative and	deal with more intense projects than a domestic machine .
9. APPLIQUE AND ENTRAPMENT	10. FINAL DESIGNS	11. PRODUCT MAKE
Appliqué – Applique is to decorate fabric by cutting pieces of material and applying them to the surface of another using stitch.	final designs – final designs are the last drawings of what a product will look like, including any embellishments on front and back views before the prototype is made.	Innovative—(of a product, idea, etc.) featuring new methods; advanced and original. Embroidery - Embroidery is the craft of decorating fabric or other materials
Entrapment is similar to applique where by you cut out pieces of materials and apply them to the surface of another using stitch.	Composition—Composition means the way in which a whole or part of something is made up. A synonym would be layout. When creating your final design it is important to note	using a needle to apply thread and other components eg. Beads and buttons. The equipment you would use for embroidery is a needle, thread, fabric, an embroidery hoop and scissors.
However with entrapment you place beads, sequins and other	It must meet your <u>design brief</u> . Make sure it is suitable for your	The hole in the needle where you insert the thread is called the eye of the needle.

Transparent mean that a material allows light to pass through so that objects behind can be seen.

small decorative items under the fabric that is stitched down.

The fabric used for entrapment is usually **transparent** or

translucent (semi – transparent).

Equipment you would need for **entrapment** are the same for applique and embroidery.

It must meet your <u>design brief</u>. Make sure it is suitable for your <u>target audience</u>. (See box 1 term 1 for definitions of these terms)

Your back **MUST** include some ideas from your previous drawings and use textiles techniques.

Use colour rendering techniques to accurately represent your idea.

Annotation—You will need to annotate design ideas carefully. Annotations are labels of what you have drawn. E.g. Write the colour of thread or technique you want to use.

The hole in the needle where you insert the thread is called **the eye** of the needle.

Stitches can either be decorative or serve a purpose. You should always use an arms length of thread to stop unwanted knots being made.

Buttons are commonly used as **fastenings** however they can be decorative. They are also components.

When **components** such as beads, buttons and sequins are added to materials for **decorative** purposes, these are often referred to as **embellishment**.