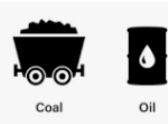
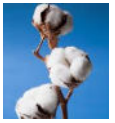


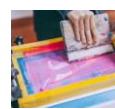
Material classifications

Natural polymers 	Natural fibres come from plants, animals or insects. They are easily renewable and biodegradable.
Synthetic Polymers 	Synthetic fibres are made mainly from non-renewable coal and oil which is refined into monomers, which join together in a process called polymerisation. They do not degrade easily
Blended fabrics 	Blended fibres are mixtures of fibres that combine properties of two or more fibres

Materials and their properties/ uses

Natural Polymers –Wool, Silk, Cotton	
Wool 	Source- Sheep Properties-Absorbent with good insulating properties, good elasticity so doesn't crease much, relatively strong, can shrink on washing Uses-Jumpers, suits, carpets and blankets
Silk 	Source- Silk worm (insect) Properties-Drapes well, has good lustre (sheen), absorbent, difficult to wash ,creases Uses- Luxury clothing
Cotton 	Source- Cotton plant Properties-Highly absorbent, durable, easy to care for, can shrink, has poor elasticity so creases Uses- Clothing, bed linen, upholstery
Synthetic polymers – Polyester, Nylon	
Polyester 	Properties-Hardwearing, good tensile strength, good elasticity but poor absorbency Uses- Clothing and sportswear
Nylon 	Properties-Hardwearing, good tensile strength, good elasticity so doesn't crease, not absorbent Uses-Parachutes, tents, rucksacks, chords
Blended fabrics - Polycotton	
Polycotton 	Properties- A blend of cotton (60%) and polyester (40%) Uses- Easy care shirts, bed linen

Processes, Tools and equipment

	Taylors chalk- Used to mark out on fabric
	Dressmakers shears- Used to cut fabrics
	Pinking shears- Used to cut a serrated edge on fabrics to avoid fraying
	Sewing machine- Use to sew pieces of fabric together, settings allow a wide variety of stitch types
	Needle and thread- Used to hand sew fabrics together
	Stitch unpicker- Used to remove(unpick) unwanted stitching
	Tailors tape measure- Use to measure hey dimensions
	Batik- The process of adding molten wax to fabric to act as a resist.
	Applique- The process of layering and sewing fabrics to create a decorative pattern
	Screen printing- A process used to print layers of different colours onto fabrics