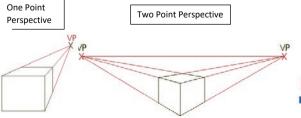
Key Term	Definition	
Vanishing Point	Point(s) at which all lines in a perspective drawing appear to meet.	
Horizon	The line on which the vanishing point(s) sit.	
Logging	The harvesting of trees for paper production.	
Deforestation	The removal of large areas of forest.	
Pulp	Wood fibre reduced chemically or mechanically to pulp used in the manufacture of paper.	
Raymond Loewy	'The father of industrial design'- Loewy is famous for designing logos such for Shell and BP. He is also famous	
	'streamlining' the design of vehicles.	
Typeface	A set of fonts with shared characteristics.	
Serif	A typeface with 'feet', or 'flicks' at the end of the letters stems.	
Sans Serif	This typeface has no feet or flicks (just like the letters you are reading now!)  SANS SERIF	
Script	This typeface will have a handwritten look-think 'Coca Cola'.	
Decorative	This typeface will be designed to have a theme incorporated into it. Decorative	
Wordmark Logo	A logo consisting of only lettering.	
Symbolic Logo	A logo consisting of only images.	
Sublimation	The process of transferring a printed image onto an item. The process uses heat to evaporate ink which	
	condenses when it hits the surface of the object to be printed onto.	
Heat Transfer Paper	Special paper used in the sublimation process. Dye particles sit on the top surface of the paper, the water from	
	the de is absorbed into the second layer of the paper.	
Polymer Coating	A polymer coating (plastic) that absorbs the evaporated ink during the sublimation process.	



Logos designed by Raymond Loewy

Die Cutter

Laser Cutter

**Heat Press** 



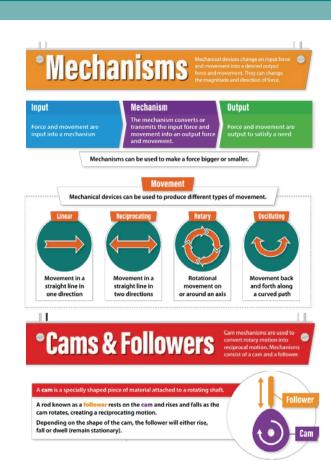


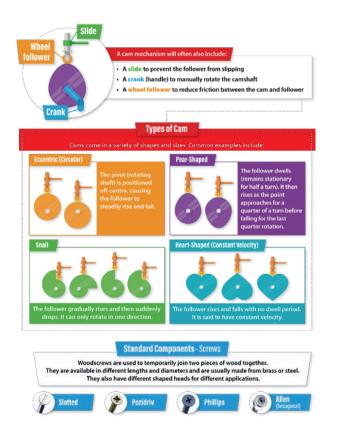






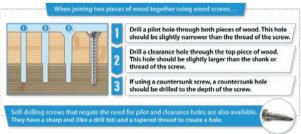










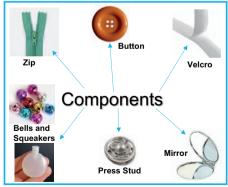


Fabric	Advantages	Disadvantages
Plain Weave Cotton	Breathable, Lightweight, Biodegradable, Easy to care for, Absorbent (good for dying)	Takes a long time to dry
Cotton Velvet	Insulating, Soft, Luxurious sheen.	Difficult to care for, Not very durable.
Polyester (Synthetic)	Strong, Durable, Drapes Well, Hydrophobic (does not absorb water) so quick drying, Easy to care for, Pleats/shapes can be set with heat-good for adding structure, Diagonal pattern on surface of fabric can be used to create patterns, Cheap to purchase as manmade.	Polyester can melt or misshape with high temperatures. Take care with aftercare.
Cotton Terry Towelling	Very absorbent due to the loops (takes a long time to dry), Interesting surface texture, Soft	Loops can snag. Takes a long time to dry.
Satin (Synthetic)	Lustrous shine, Drapes well, Strong, Durable, Pleats/shapes can be set with heat-good for adding structure, Hydrophobic (does not absorb water) so quick drying,	Can snag easier than other weaves so not suitable for everyday wear.
Knitted Wool	Insulating, Soft, Absorbent Natural elasticity, Lots of texture.	Takes a long time to dry, Heavy when wet, Expensive.
Lace	Breathable, Absorbent, Lightweight, Easy to clean, Biodegradable, Lots of variations of intricate designs (good to add pattern and texture), Areas of pattern alongside sheer areas.	Delicate to work with. Can snag or pull easily.
Cotton Jersey knit	Breathable, Stretchy Soft, Lightweight, Absorbent, Biodegradable, Crease Resistant	It doesn't retain its shape well when over stretched. Unravels if cut or snagged as made from one continuous yarn.
Cotton Denim	Breathable, Biodegradable, Easy to care for, Absorbent (good for dying), durable, diagonal twill surface adds pattern and texture.	Expensive, no stretch, heavy when wet, slow drying.
Cotton Corduroy	Insulating, Soft, Biodegradable, Absorbent (good for dying), different cord thicknesses are available.	Medium durability, the pile cord can wear down with abrasion, takes a long time to dry.

# Y8 Design Technology:Textiles Essential Knowledge Organiser







#### **Decorative Technique** Description Applique is completed on a sewing machine using a C2 zig zag stitch. Applique adds texture and interest to products, and completing it by machine is quicker and the applique will be more durable. You can complete both 2D applique (lies flat to the product) and 3D applique (applique which protrudes from the surface such as ears, legs, a tail etc.) on a sewing machine. Machine Applique When applique is completed by hand sewing. Hand applique can only be used to produce 2D applique. Stitches should overlap the raw edge for durability, to reduce fraving and for an aesthetically pleasing finish. Stitches can be a contrasting colour to add decoration. Applique adds texture and interest to a product. **Hand Applique** CAD/CAM (Computer Aided Design/Computer Aided Manufacture) Embroidery is an automated process to produce guick, durable and professional embroidery stitches. In manufacture of toys it is used for motifs, decorative stitches and elements such as facial features to add durability but also to reduce the risk of choking on potential choking hazards. In school we can use CAD/CAM embroidery **CAD/CAM Embroidery** machines t produce letters and numbers. Hand embroidery is a method of producing intricate stitches which add texture and decoration. Stitches can lie flat or be 3D dependent on the stitch selected. You will need an embroidery hoop, embroidery needle and embroidery threads to complete it to a high standard. A variety of patterns and texture can be added to your work using hand embroidery, it also works well combined with decorative embellishment. The key for a high quality finish is even Hand Embroidery length stitches and good stitch tension! Decorative embellishment is where you sew sequins and beads onto a fabric to add decoration, pattern and texture. We do this technique by hand sewing each one individually to build up to a desired pattern. Decorative embellishment can be time consuming and quite fiddley so you need to concentrate but its worth the effort when you see the finished result! Decorative Empellishment

# Y8 Design Technology:Textiles Essential Knowledge Organiser







#### Machine Applique

√ Stitch=C2

✓ Should overlap raw edge

✓ Reverse when you start and end for durability

Sewing Machine Skills

#### Seams

- ✓ Stitch=A2 (straight) C2 (Zig Zag)
- ✓ Straight stitch 1cm from the raw edge
- ✓ Zig zag stitch along the raw edge to prevent
- ✓ Reverse when you start and end for durability



# **Year 8 Food Preparation and Nutrition Essential Knowledge Organiser**



Food hygiene is necessary in order to make food which is safe to eat. This involves

more than just being clean. A simple way to remember all the important areas where safety could be an issue are the 4Cs:

- Cooking
- Cleaning
- Chilling
- Cross Contamination





Nutrient	Food Examples	Main Function in Body		
Macronutrients - We need these in large amounts.				
Starchy Carbohydrates	Cereals, bread, rice, potatoes, pasta etc.	Give us slow release energy. (wholegrain versions are higher in fibre).		
Protein	Meat, fish, eggs, nuts, seeds, pulses, lentils.	Growth, repair and maintenance of muscles.		
Fat	Butter, lard, margarine, sunflower oil, olive oil etc.	Insulates our vital organs (heart, lungs etc) and keeps us warm.		

#### **Useful Websites:**

http://www.foodafactoflife.org.uk/site.aspx?siteId=19&t=3 https://www.bbc.com/food/techniques https://www.ifst.org/lovefoodlovescience/resources

Key Word	Meaning
Bacteria	Micro-organisms which can grow and multiply on food. Some can cause food poisoning
Chilling	Reducing temperature 0-4C to slow down growth of bacteria
Cooking	Using different methods to kill bacteria e.g. boiling, grilling, baking
Cross contamination	Transfer of bacteria from one thing to another e.g. equipment
Danger Zone	Temperature between 5 - 63C when bacteria multiply quickly
Food Poisoning	Caused by eating food infected with bacteria. Symptoms include sickness, fever and diarrhoea
Food Spoilage	When bacteria causes food to decay. Food will start to smell, lose texture or flavour.
Gluten	Protein in wheat flour, which makes dough stretchy
High Risk Food	Foods which may cause food poisoning if bacteria can multiply quickly

## **Raising Agents**

Biological – Yeast, used in bread making.





#### Mechanical – folding, beating, whisking, sieving, creaming,

rubbing in.



**Chemical** - Bicarbonate of soda, baking powder, S.R.flour.







# **Year 8 Food Preparation and Nutrition Essential Knowledge Sheet**

## Food poisoning

Food poisoning can be caused by:

- bacteria, e.g. through cross-contamination from pests, unclean hands and dirty equipment, or bacteria already present in the food, such as salmonella:
- physical contaminants, e.g. hair, plasters, egg shells, packaging;
- chemicals, e.g. cleaning chemicals.

Bacterial contamination is the most common cause

Microorganisms occur naturally in the environment, on cereals. vegetables, fruit, animals, people, water, soil and in the air. Most bacteria are harmless but a small number can cause illness. Harmful bacteria are called pathogenic bacteria.

The process of food becoming unfit to eat through oxidation. contamination or growth of micro-organisms is known as food spoilage.

#### Bacterial growth and multiplication

All bacteria, including those that are harmful, have four requirements to survive and grow:

- food:
- moisture: warmth:
- time



Bacteria easily multiply on foods known as 'high-risk food'. These are often high in protein or fat, such as cooked meat and fish, dairy foods and eggs. Cooked pasta and rice are also regarded as high risk foods if they are not cooled quickly after cooking and stored below 5°C.

#### Moisture

Bacteria need moisture to survive Dried foods, such as powdered milk, cereals or dried egg do not support bacterial growth, if properly stored. However, if moisture is added, any bacteria still alive can quickly begin to multiply.

# Temperatures to remember

To reduce the risk of food poisoning, good temperature control is vital:

- 5-63°C the danger zone where bacteria grow quickly.
- 37°C body temperature. optimum temperature for bacterial growth.
- 8°C maximum legal temperature for cold food, i.e. your fridge.
- 5°C (or below) the ideal temperature your fridge should
- 75°C if cooking food, the core temperature, middle or thickest part should reach at least this temperature.
- 75°C if reheating food, it should reach at least this temperature. In Scotland food should reach at least 82°C. Remember to reheat food only once!

## poisonina The symptoms of food

poisoning include: nausea: vomiting: stomach pains; diarrhoea.

Symptoms of food

## People at risk

Elderly people, babies and anyone who is ill or pregnant needs to be extra careful about the food they eat.

# Getting ready to cook

Remove blazers and roll up long sleeves. Tie up long hair and tuck in ties ..

Thoroughly wash and dry hands.

Put on a clean apron.

#### Time

When bacteria spend enough time on the right types of food, at warm temperatures, they can multiply to levels that cause illness. Reheat food only once

and eat leftovers within 48 hours.

## Fridge Storage

Cheese, dairy and egg-based products at top.

Cooked meats above raw meats to prevent contamination from raw meat.

Raw meats and fish on the bottom shelf below cooked meats and sealed in containers. Salad and vegetables store in the drawer(s) at the bottom of the fridge.

