Design Technology KS3 provision			
	Resistant Materials	Textiles	Food
	Resistant Materials  Handy stand – Multi functional acrylic stand Polymers https://app.senecalearning.com Introduced to safe working practices within the workshop Health and Safety in Resistant Materials Practical skills – using equipment safely to create a polymer handy stand. Using a variety of tools well including – coping saw, files, drilling machines and finishing tools and processes 2D into 3D drawing skills Card Modelling  Knowledge Identification, properties & uses of polymers.	Textile lamp made with reclaimed materials https://app.senecalearning.com Introduction to new skills Health and safety – getting to know the textile studio, how to safely use equipment Practical skills – using equipment safely to create a printed and embroidered lamp  Knowledge Types of fabrics Sources and origins of fabrics Fabric properties Fabric construction  Iooking into woven fabrics and their products – plain weave for shirts, twill weave for jeans knitted fabrics – tights/socks and jumper	Healthy Eating and nutrition Health and safety Introduction Eatwell guide/ macro nutrients Practical's:
Year 7:	Analysis, design, make, evaluation	Bonded fabrics – fights/socks and jumper     Bonded fabrics – fleece and felt <a href="https://app.senecalearning.com">https://app.senecalearning.com</a> Analysis, design, make, evaluation	https://www.foodafactoflife.org.uk/11-14- years/healthy-eating/energy-and-nutrients/

# Jewellery – Made with casting metal Metals

https://app.senecalearning.com/

Metals and alloys

https://resistantmaterials.weebly.com/metalsand-alloys.html

#### Skills

Successfully and accurately create an MDF mould

Work safely to operate the crucible to pour their own molten metal under supervision.

Work with care to produce a polished highquality finish

## Knowledge

Understand ACCESS FM when investigating existing products

Be able to draw in 3D adding thickness in Oblique projection

Using card to model their compassionate design

Analysis, design, make, evaluation

## Textiles washbag with zip

https://app.senecalearning.com/

# Strengthen skills

Health and safety – students reiterate using equipment safely

Practical skills – product construction following instructions. Adding a zip.

## Knowledge

Scales of manufacture

- One off
- Batch
- Mass

Technology push and market pull

Culture

Iterative design process and user centred design <a href="https://app.senecalearning.com/classroom/">https://app.senecalearning.com/classroom/</a> Analysis, design, make, evaluation

#### Cultural cuisine

Italian/Indian/British foods

#### Practical's:

- -sausage rolls
- Bread based pizza (yeast)
- -Egg fried rice
   https://www.foodafactoflife.org.uk/11 14-years/where-food-comes-from/food-availability/

## Knowledge

Fair trade/ where our food comes from (Farming/ Fishing and crops)/
Seasonality/local/ environmental concern/
sensory testing/ sensory analysis
Practical's:

- -Potato layer bake
- Banana loaf
- -Chicken faiitas

https://www.foodafactoflife.org.uk/11-14vears/where-food-comes-from/ Ipad stand – Made using Manufactured boards& various joining methods

https://app.senecalearning.com/

Ipad stand – Made using Manufactured boards & various joining methods Joints

 $\underline{\text{https://technologystudent.com/pdfs/jointq1.pdf}}$ 

#### Skills

Successfully manufacture a storage unit using tenon and coping saws. Use files and glass paper to develop a varnished finish of good quality

Manufacture for assembly

Work independently within the health and safety expectations

## Knowledge

Apply ACCESSFM elements to existing products Identification, properties & uses of Timber. Identification, properties & uses of

Manufactured board.

Timber joining methods

Source & origin of timber

How manufactured boards are made

Advantages & Disadvantages

Isometric drawing development using CAD

Iteration of models

https://www.technologystudent.com/

# Over the door storage – reclaimed fabrics

https://app.senecalearning.com/

## Refining skills

Health and safety – students to independently use equipment safely

Practical skills – pattern development and skilled product construction. Adding standard components and pockets.

### Knowledge

Environmental and social impacts/issues Sustainability and fabrics

Standard components and stock forms Product development

https://www.youtube.com/watch?v=pJBRqespiOAhttps://app.senecalearning.com/

Analysis, design, make, evaluation

# Food Safety Practical's:

- -Cheese and onion pasties
- -Meat balls and sauce
- -Chocolate brownies

https://www.foodafactoflife.org.uk/11-14years/cooking/hygiene-and-safety/

## Knowledge

General health and safety/ food safety/ Risk assessments (hazards and control measures)/Bacteria / food borne ill health/ safe storage/HACCP/Food safety act Date marks and food labels/ allergies and intolerances/ personal hygiene/ The role of the EHO/ sensory testing and sensory analysis/ evaluating cooking practical's

### Practical's:

- -Mini quiches
- -Chicken stir fry
- -mac and cheese

https://www.foodafactoflife.org.uk/11-14-years/cooking/hygiene-and-safety/