

Year 7

Packaging Project

Marketing

Market research

Product analysis

Writing a specification

Working to a specification

2D sketching techniques

Basic Computer Aided design, learning short cut keys, building designs from shapes, layering images.

Printing and die cutting

Evaluating against a specification

Food Project

Health and safety within a food room

Cross contamination, cleaning, cooking and chilling

Food portions and Eatwell guide

Knife safety, bridge and claw techniques

Oven safety

Measuring, weighing out ingredients

Sauteing

Sensory analysis

Textiles monster

Where textiles come from

Expressing creativity through design

Understanding the role of paper patterns

Analysing designs against a specification

Running, back stitch and how to applique

Marking out and cutting fabric

Inverse sewing

Key fob wood work

Measuring and marking out

Sawing and filing

Sanding and abrading

For each of the following Design technology topics, suggest three careers that use this skill/information, also, provide some links to websites with information about each of these careers (UK based). Make sure the links are suitable for year 8 children. Present this information as a table. The first column should be the topic, the second column should be the careers and the useful links:

Year 8

Screen Print Project

What are textiles

Where do textiles come from

Local history about whitworth and manchester being cottonopolis

What is batik and using the batik technique

What is screen printing and learning how to screen print

Learning 2D techsoft and creating a design that can be laser cut

Craft knife safety

Pull along toy project

Product analysis and market research into existing produce taking positives and negatives

Marking out creating a template

Using power tools belt sander, scroll saw, pillar drill and hand tools such as coping saws, tenon saws, and files

Painting

Chocolate mould project

Introductions to 3D computer aided design using Solidworks

Learning to sketch, set correct dimensions

Learning to extrude, chamfer, fillet and extrude cut.

Making a wooden form

How to vacuum form

Creating a mould

Tempering chocolate and casting a chocolate bar out of the mould

Acrylic Clock project

Working with plastics

Where plastics come from

Understanding sustainability

Sawing with scroll saw, using pillar drill and hand tools, learning cross and draw filing techniques

Abrading and using wet and dry paper

Understanding and using the Buffer safely

Understanding physical properties of acrylic

Suggested resources :

<https://resources.careersandenterprise.co.uk/my-learning-my-future>

<https://nationalcareers.service.gov.uk/>

<https://www.mypathcareersuk.com/maths-why-bother>

Note - this isn't just maths, it also includes science, English and Geography too.

<https://www.bbc.co.uk/bitesize/careers>

<https://icould.com/>

<https://lancashirecareershubs.co.uk/wp-content/uploads/2025/11/Updated-Work-Ready-Lancashire-Booklet.pdf>

For each of the following Design technology topics, suggest three careers that use this skill/information, also, provide some links to websites with information about each of these careers (UK based). Make sure the links are suitable for year 9 children. Present this information as a table. The first column should be the topic, the second column should be the careers and the useful links:

Year 9

Anthropometric chair project

Understanding Primary and secondary research

Learning about Anthropometrics and ergonomics

Collecting and analysing first hand anthropometric data

Understanding Scale,

Designing products fit for purpose

Isometric sketching

Block building and crating

Rendering to light source

Measuring and marking out scale models

Understanding why designs model during the iterative design process

Analysis and evaluation of models to check fit for purpose

Using 2D techsoft to design and laser cut scale model wooden chairs

Craft knife and Glue gun safety

Learning advanced skills in solidworks

Creating and assembling parts on solidworks

Creating an orthographic drawing on solidworks

3D printing scale Chair

Paper engineering

Knowing where paper comes from and how it is made

Creating simple V fold pop up

Creating a complex double linear mechanism

Understanding sustainability

Keepsake box

Learning finger, dowel and housing joint
Recap on isometric drawing
Block building and crating
Rendering to light source
Recap of laser cutting lid for box
Learning to vectorise

Food

Hospitality and catering industry
Factors affecting success
Operational activities in the industry
Making puff pastry
Creating rolls
Meeting customer requirements
Mini quiche
Risks and control measures for personal safety in hospitality and catering
Cooking and presentation techniques
Focaccia

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