

Design & Technology

Year 9 Option Pathways

Year 9 option pathways

Instead of moving through the different material areas, you will choose **one area to study for the whole of Year 9**. This helps you build **strong skills and knowledge** in that subject. It also prepares you well if you decide to **continue studying it at GCSE**.

The 4 options are:



Textiles



Food



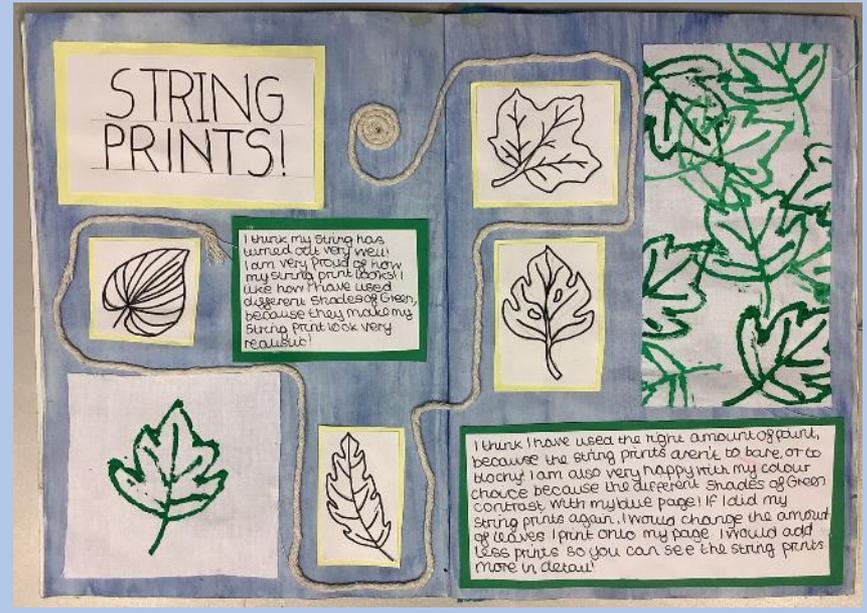
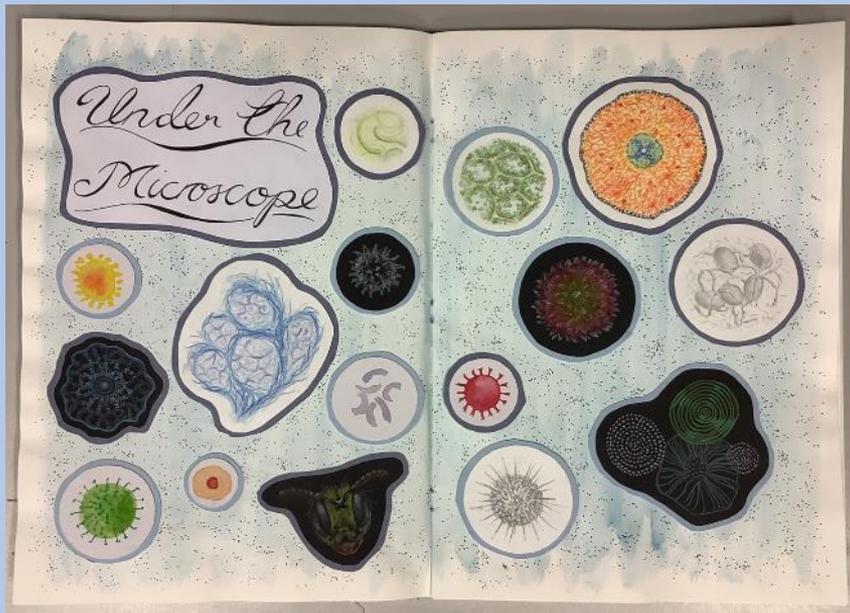
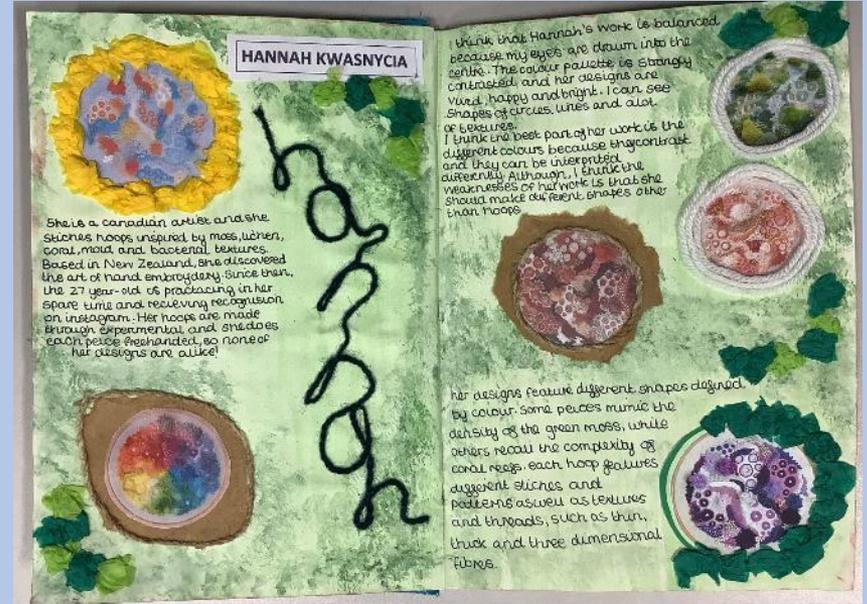
Design and Technology



3D Design

TEXTILES

In Year 9 Textiles you work in sketchpads:



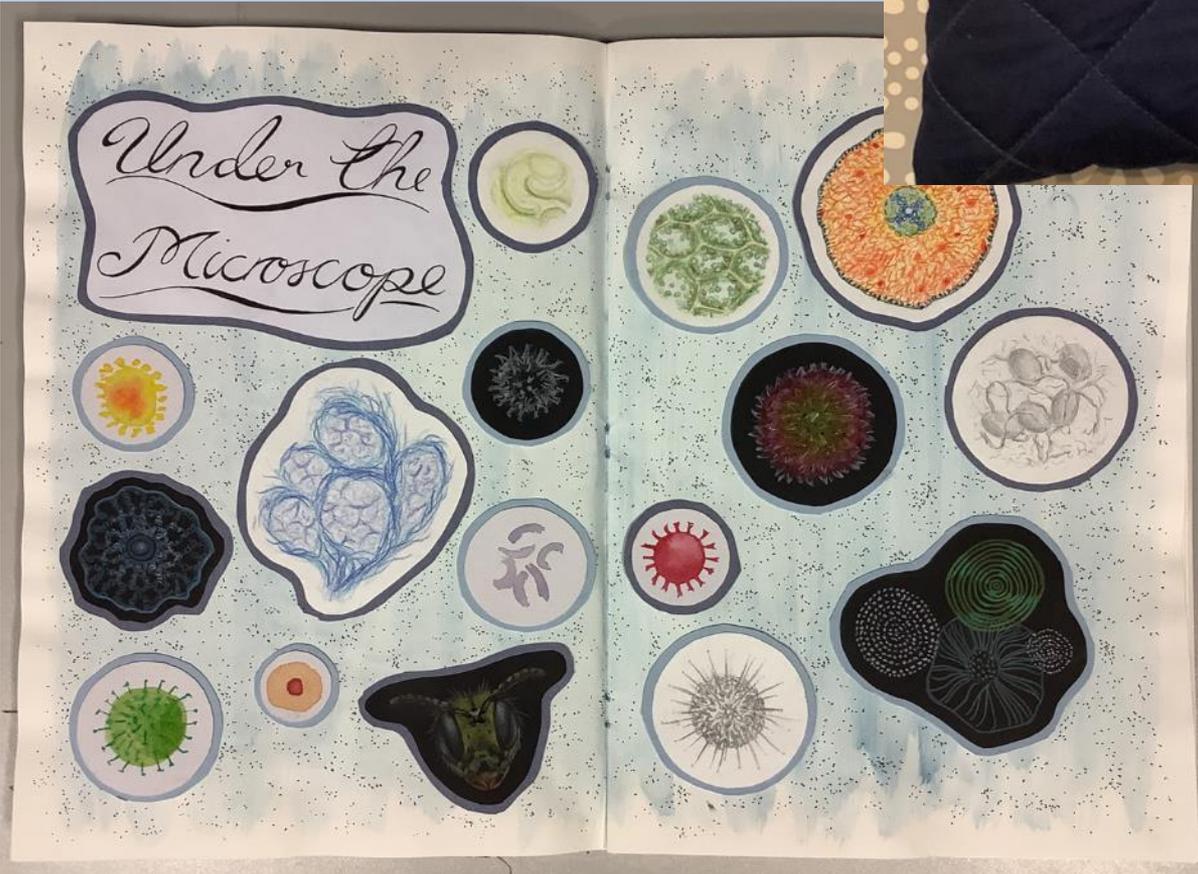
Printing project:

Techniques:

- Block printing
- String printing
- Tie Dye
- Applique



Make-up bag/tablet case project



Techniques:

- Quilting
- Transfer printing
- Free hand machine embroidery
- Hand embroidery
- Beading/sequins

Fabric manipulation project:



FOOD TECH

Food Technology in Year 9

You will work in a booklet:

Lessons will consist of:

- Demonstrations
- Practical activities
- Theory input



Do not choose Food if you struggle to bring ingredients regularly. If you are not cooking every time, you will not succeed in this subject.

Food Technology in Year 9

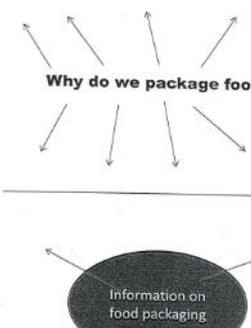
Some of the theory topics you will cover:

- Hygiene
- Food poisoning
- Nutrition and the Eatwell guide
- Digestive system
- Food Packaging and labelling
- Function of ingredients
- Fair trade
- Raising agents
- Hygiene, Health and Safety
- Special diets
- Seasonality

Title: Food Labeling and Packaging

Packaging Task
Examine the packaging for the salmon and broccoli pie and then answer the questions below.

Why do we package food?



1. Name two pieces of information that must be on a food label by law (1)
2. Name three pieces of information that are included to inform the consumer, but are not required by law (3)
3. What does the large e by the weight stand for? (1)
4. Name the top fish ingredients in the pie (2)
5. Name three ingredients used to add flavour to the pie (3)
6. Which is the heaviest ingredient in the pie? Explain your answer (2)
7. Why is this product categorised as a high risk product? (1)
8. Why does the pie have a use by date not a best before date? (2)

Vegan

Veganism

Reasons Why Someone Would Choose to Be Vegan

Animal Issues	Social Issues
Cultural Issues	Health Reasons

Write the title 'Vegan'

Task 1: Write a definition of 'VEGANISM' in your own words.

On the LEFT is a starting point for why we might become Vegan.

Task 2: Copy this chart onto A4 and complete it in detail. Use the video to help

SENTENCE STARTERS

- A vegan is.....
- More and more people are turning to a vegan diet because.....
- There are many scientifically proven benefits such as.....
- Farmers depend upon.....
- The production of meat and dairy products impacts on the environment because....
- The benefits of a plant based diet are.....

The theory you learn will give you a strong head start for **GCSE theory.**

Food Technology in Year 9

You will build on the skills developed in Years 7 and 8:

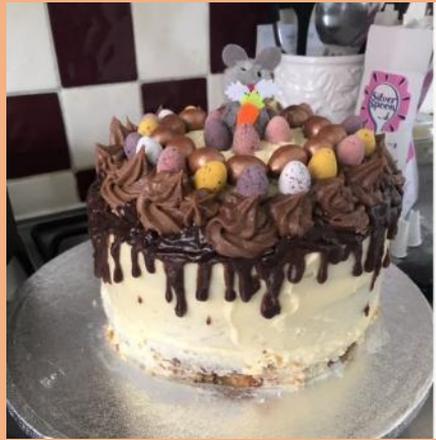
- Knife skills
- Cooking techniques
- Dough and baking skills
- Sauce and mixture skills
- Food Safety and Hygiene
- Presentation techniques
- Evaluation skills



Examples of Products made in Year 9.



White Chocolate Blondie



Victoria Sponge Cake



Fresh Pasta



**Mini Shortcrust Pastry
Quiche**



Shortbread Biscuits



Chicken Curry



Swiss Roll



Gingerbread



**Rough Puff Pastry
Cheese Straws**



Pizza Calzone

DESIGN & TECHNOLOGY

(the technical one...)

Design & Technology in Year 9

In Year 9 DT you will work a Digital Portfolio:

Lego Man

I used the assemble mode to assemble the Lego man.

I used the tool mate to connect all the limbs.

I also made a hammer to put in the Lego man's hand.

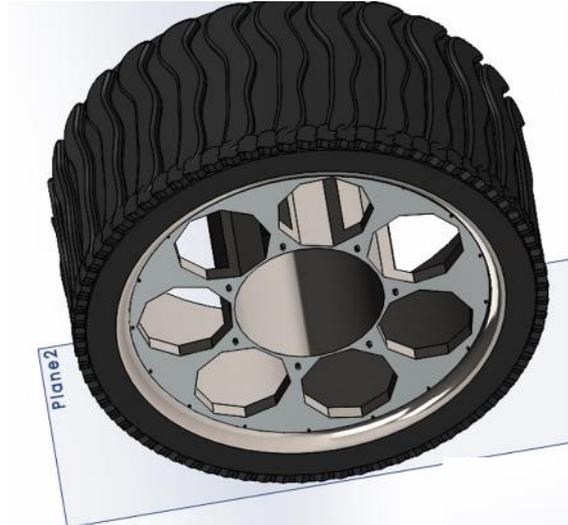
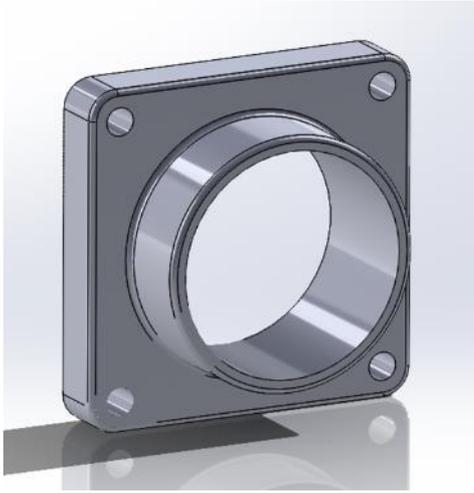
Skills Used and Finished Product

Lesson 5

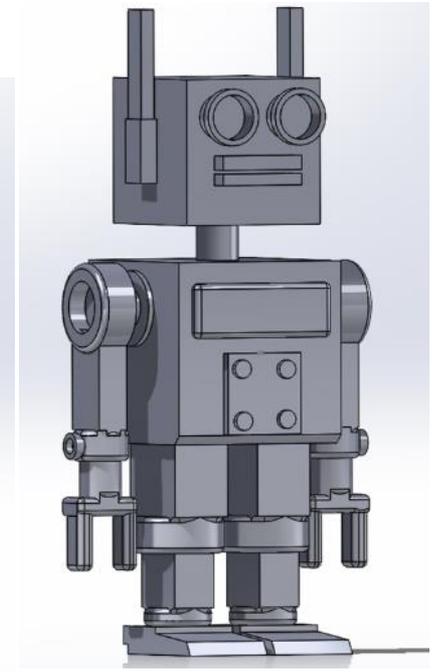
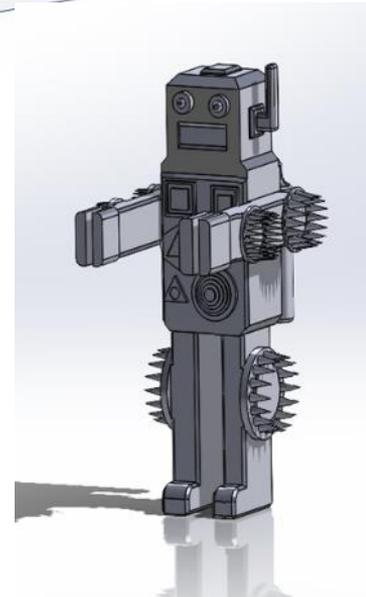
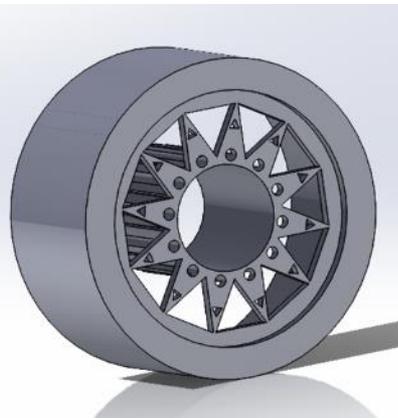
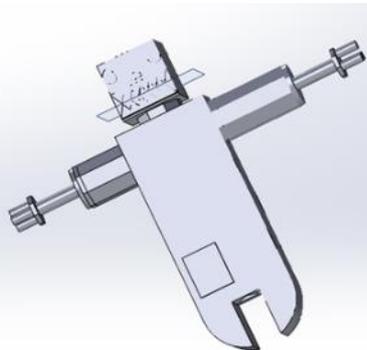
Art Deco Ideas

Design & Technology in Year 9

You will learn how to model things in SolidWorks our 3D CAD software:



S **SOLIDWORKS**



Design & Technology in Year 9

Workshop / Practical Skills

You will learn in the workshop how to independently:

- Join / Glue
- Cut / Drill
- Sand / shape
- Polish

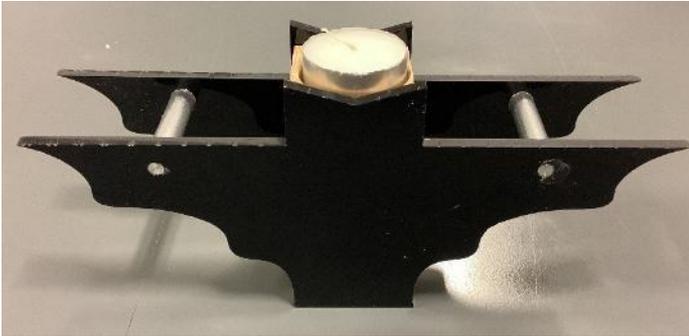


Woods, metals and plastics using both hand tools and the workshop machines

Design & Technology in Year 9

Extended Design and make Project

You will use your skills to design and manufacture a bespoke lighting product.

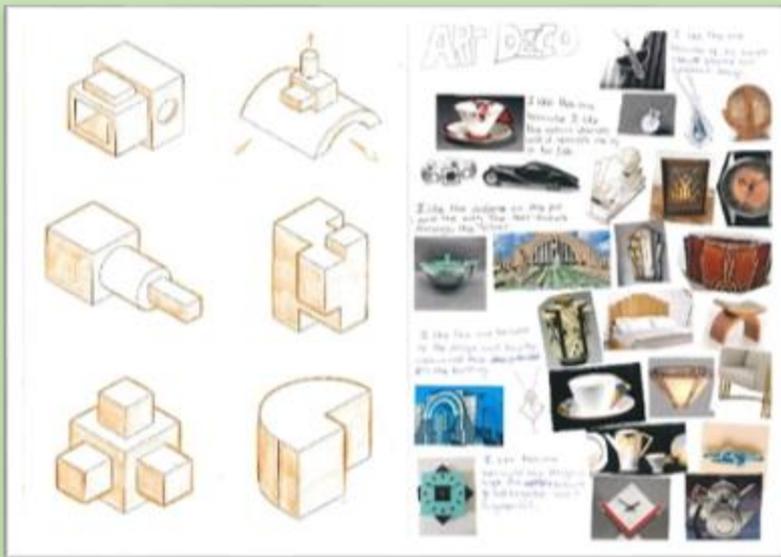


3D DESIGN

(the artistic one...)

3D Design in Year 9

In Year 9 3D Design you will work in sketchbooks:



3D Design in Year 9

Mini Skills Projects:

You spend time building skills in the workshop by making the following projects:



Gemstone project

you will learn how to:

- Glue plastics
- Shape plastics
- Polish plastic

Surfboard project

you will learn how to:

- Glue woods
- Shape woods
- Polish woods



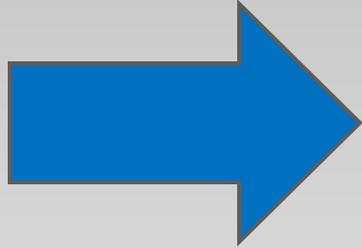
3D Design in Year 9

Art Deco Tea Light Holder Project:

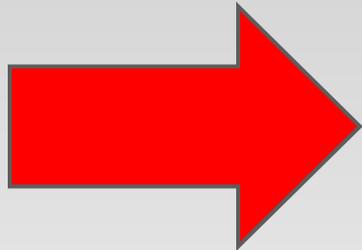
You will use your skills to plan and make a high-quality candle holder inspired by the design movement Art Deco.



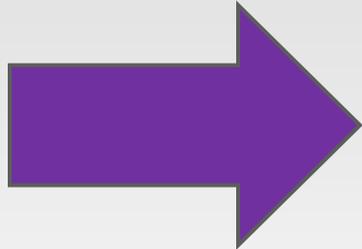
You must choose one of these four to study throughout year 9.



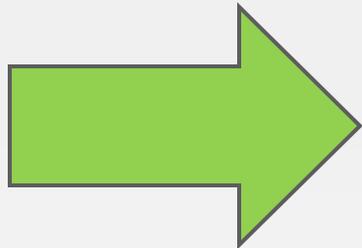
Textiles



Food



Design and Technology



3D Design

The right reasons for choosing a subject area to study:

- I already enjoy the kind of work undertaken in that subject area.
- I want to challenge myself and see what I am capable of achieving.
- I am interested in a possible GCSE/ career associated with that subject area.

Second Choices

- **There are only so many groups we can accommodate in each subject area.**
- **You must have a second choice option.**

If you have any further questions, please speak to your DT teacher or the subject leads:

- Textiles – Mrs Armstrong**
- Food – Mrs Walker**
- DT/3D Design – Dr Brodie**

There is also a small display outside the DT office to have a look at work.