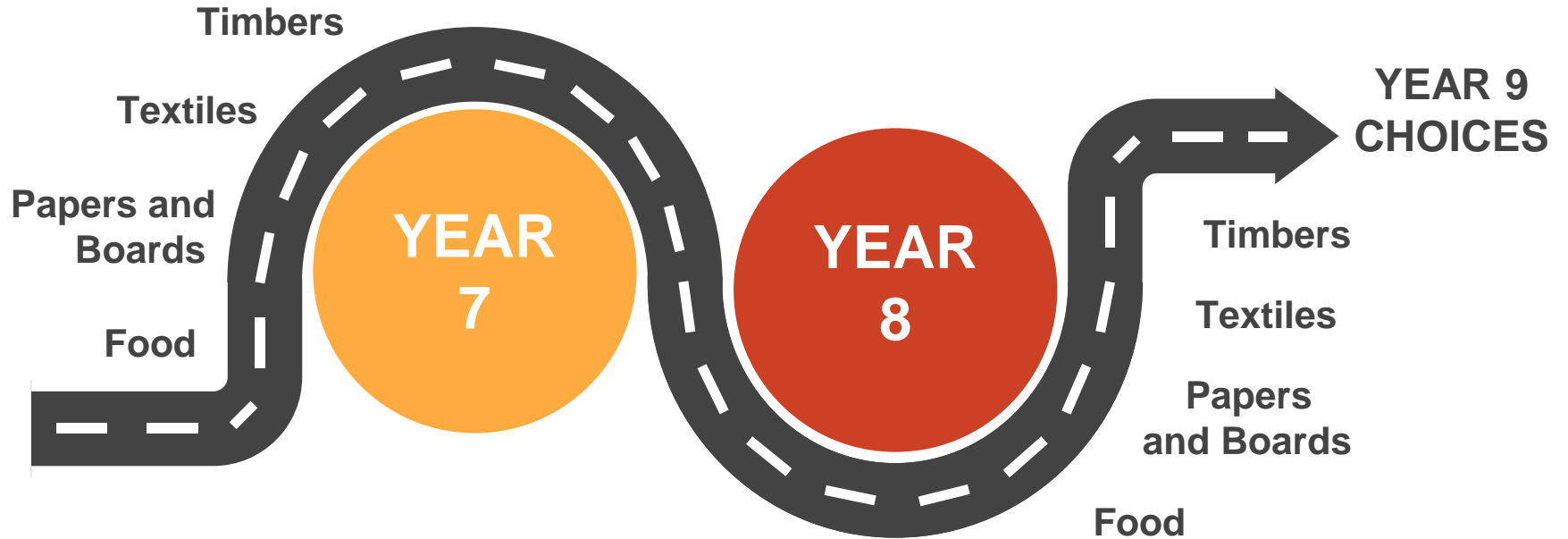
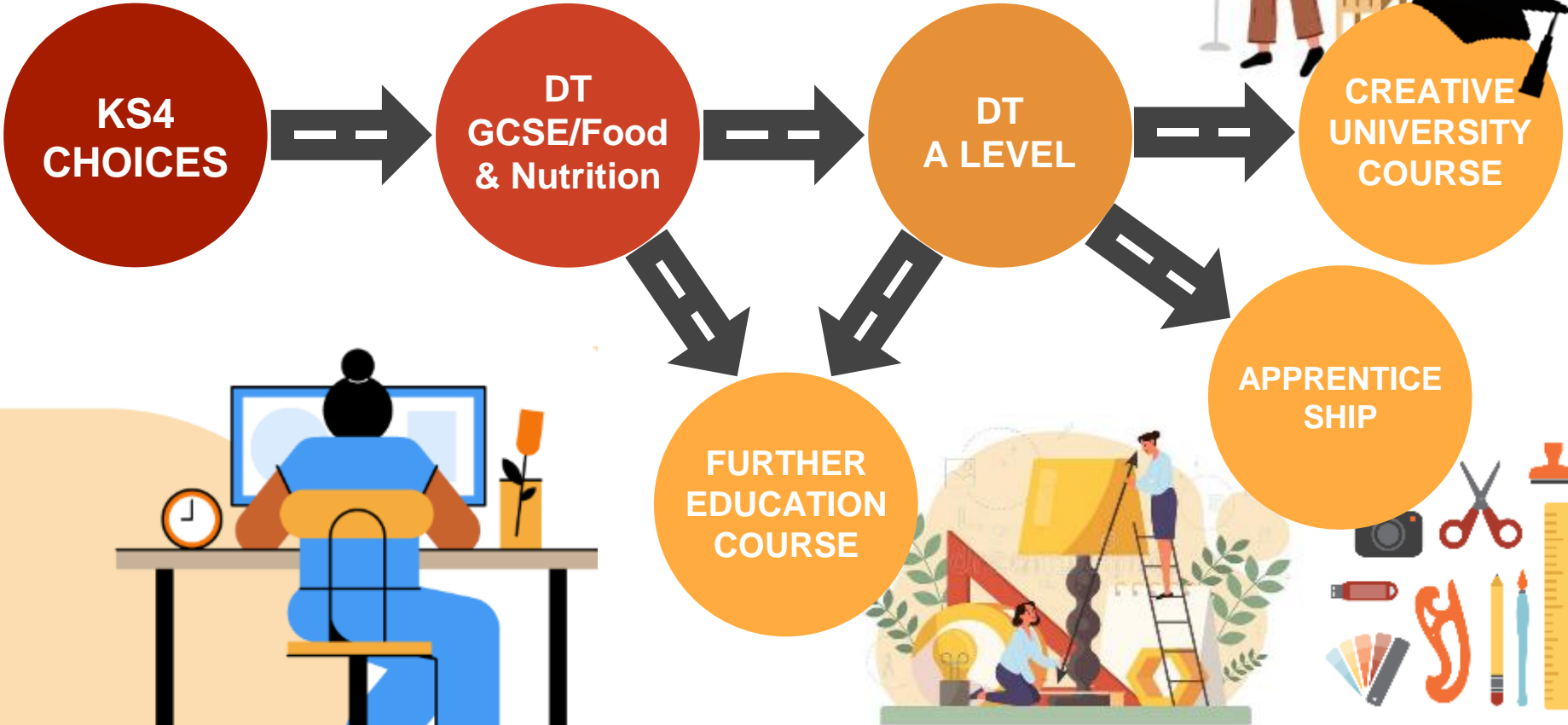


# Year 8 Design Technology Choices

In Year 7 and 8 you have studied each subject and now need to make a choice for Year 9.



# CAREER PATHS AFTER YEAR 9



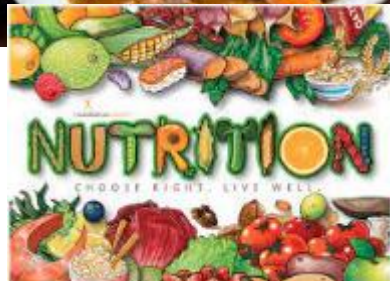
# FOOD AND NUTRITION: Year 9 learning



NORTHAMPTON  
SCHOOL FOR GIRLS  
Inspiring the Girl. Empowering the Future. | 150+



In Year 9 in Food we build on the skills & knowledge you gained in Year 7 & 8. We learn how to make food from a variety of international cuisines; Asian glazed salmon, Japanese gyoza & Katsu curry, Finnish fruit plait, Italian frittata & British Victoria sandwich cake. We study the nutrients that different foods supply and the function of them to your body. We also investigate how ingredients work by doing investigations using different ingredients to see how they affect the finish products..



# FOOD AND NUTRITION: GCSE products

Recent NEA2 topics;  
Street food  
Asian food  
Traditional British food  
European food  
Food high in iron  
Food suitable for small children  
Food suitable for vegans & vegetarians

NEA1 15%, NEA2 35%, written exam 50% all completed in Year 11



Recent NEA1 topics;  
Investigate the effects of raising agents in cakes, biscuits or scones.  
Investigate the function of the ingredients in bread

# PAPER AND BOARD: Year 9 learning

## Project 1: CAD skills: Grand Designs

In this project you will design a self contained holiday villa located in the Maldives for the client Eden Roak. You will develop your Computer Aided Design (CAD) skills, where you will bring your ideas to the life with through 3D software program sketchup.



## Project 2: Skill development: Food Tray

Get familiar with how to draw up a net with the design theme for the occasion of your choice. Using CAD skill to refine and develop.

## Stretch and challenge: food tray continued

This project allows for further skill development where you develop individual components for popcorn or food boxes as inserts to the food tray.



## Project 3: Mini NEA - Recyclaphone/ Filla-fragrance

You will continue to explore, research, design and make a product in this project. This will now be more independently led to make a product of your choice - such as a electrical or beauty prototypes and packaging ready for the market. You will learn different modeling techniques and CAD processes, this will help give you a small taster for what the GCSE course will look like.

## Key skills you will learn/develop

- *Drawing skills* - isometric, exploded view, rendering, dimensions, 2 point-perspective, nets.
- *Hand tools and Machines*- hotwire cutter, files, needle files, sand paper, craft knife, mat and rules etc.
- *CAD* - sketchup, photoshop



# PAPER AND BOARD: GCSE products

Towards the end of year 9 you will make a decision on whether you will take a D&T subject as a GCSE option. Your mini NEA project in Year 9 should help you make an educated decision about this.

In year 10 we do a bigger version called a mock NEA to help further prepare you, this is where you will explore even more complex and interesting techniques to allow you to produce a really advance final outcome for you real NEA in year 11.



## Example NEA topics:

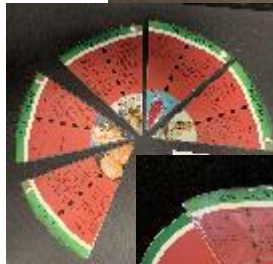
### Theme 1

- Primary Schools



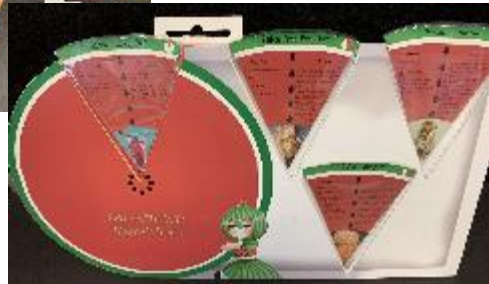
### Theme 2

- Hotels



### Theme 3

- Supermarkets



**What can I make?.....Anything your skills will allow!**



# TEXTILES: Year 9 learning

## Project 1: Drawstring bag

Design and make a drawstring bag following the context of geometric shapes.

You will learn skills such as:

- Screen printing
- Batik
- Mola
- Applique
- Block printing
- Tie-dye
- Seams
- Free machine embroidery



## Project 2: Dress or shorts for charity

Design and make a dress or pair of shorts for a young child who may not have much. Consider their needs, wants and the climate they live in, so that you can design and make a garment suitable for them.

We work with a charity to make sure the garments you make are sent to children who will really appreciate them.



### Learn key constructions skills such as:

- Seams
- Hems
- Button & button holes
- Pockets
- Elastic waistband



Apply your previously learnt skills to add decoration onto the garments.



# TEXTILES: GCSE products

You will be able to apply all of the decorative and construction skills learnt in year 9

## Example NEA topics:

Theme 1

- **Primary Schools**



Theme 2

- **Hotels**



Theme 3

- **Supermarkets**



## Key skills

- Screen printing
- Block printing
- Couching
- Tie-dye
- Batik
- Applique
- Mola
- Hand embroidery
- Free machine embroidery
- Seams
- Hems
- Button & button holes
- Pockets

What can I make?.....Anything your skills will allow!

# TIMBER: Year 9 products

## Project 1: Skill development

Get familiar with how to use a range of tools and machines in the workshop safely. This project will be aimed at creating a **tealight holder**, this will use CAD/CAM, hand tools and machines to refine the outcome.



## Stretch and challenge: candle holder continued

This project allows for further skill development either at the start or the end of the end as a second or even third type of candle holder could be explored.

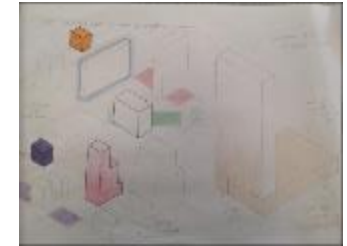


## Key skills you will learn/develop

- *Drawing skills* - isometric, exploded view, rendering, dimensions
- *Hand tools*- tenon saw, coping saws files etc.
- *Machines*- wood lathe, fretsaw, pillar drill etc.
- *CAD/CAM* - techsoft, laser cutter
- *Joining techniques* - finger joint lap joint, housing joint, wood and plastic adhesives etc.

## Project 2: Pinball game

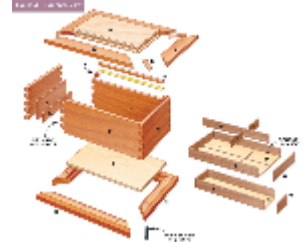
In this project you will design and make a pinball game with a theme of your choice. You will practice your technical drawing skills and develop your presentation of work throughout this project.



You will develop your hand tools and machine skills as well as refining you knowledge and application of joining techniques.

## Project 3: Mini NEA - storage unit

You will continue to explore, research, design and make a product in this project. This will now be more independently led to make a storage unit of your choice - such as a jewellery or makeup box. We will practice more joining techniques and CAD processes, this will help give you a small taster for what the GCSE course will look like.



# TIMBER: GCSE products

*Towards the end of year 9 you will make a decision on whether you will take a D&T subject as a GCSE option. Your mini NEA project in Year 9 should help you make an educated decision about this.*

*In year 10 we do a bigger version called a mock NEA to help further prepare you, this is where you will explore even more complex and interesting techniques to allow you to produce a really advance final outcome for you real NEA in year 11.*

## Example NEA topics:

### Theme 1

- **Primary Schools**



### Theme 2

- **Hotels**



### Theme 3

- **Supermarkets**



**What can I make?.....Anything your skills will allow!**

# Future career options

The variety of skills students develop including creativity, digital design, analysis, and the impact we have on the environment can lead to careers in various areas including:

- Product designer
- Graphic Designer
- Nutritionist
- Fashion Designer
- Interior / Stage Designer
- Architect
- Food scientist
- Engineer
- Fashion buyer
- Food stylist
- Social Media Manager
- Digital Content Creator



# The choices process

You will receive a form via Edulink, **Friday 20th May 2022**. This needs to be completed very carefully by numbering, in order of preference, the specialisms of textiles, timbers, paper and board (graphics) and food, from 1 to 4. 1 indicates that this would be your first choice, 2 indicates that this would be your second choice, and so on. There is also a column where you can explain why you would like this choice, such as needing it for a potential career choice or wanting to study it at GCSE.

We will try, where possible, to give everyone their first or second choice but this is not always possible; we are sure you will understand this.

The deadline for submitting your choices is **Friday 10th June 2022**.

Thank you for your careful consideration and action on these choices.

# The choices process

If you have any questions, please speak to your current teacher or contact teachers below to support:



**Food and Nutrition** - Mrs A Hulbert - [ahulbert@nsg.northants.sch.uk](mailto:ahulbert@nsg.northants.sch.uk)



**Papers and Boards** - Mrs C Osborne - [cosborne@nsg.northants.sch.uk](mailto:cosborne@nsg.northants.sch.uk)



**Textiles** - Miss C Hartley - [chartley@nsg.northants.sch.uk](mailto:chartley@nsg.northants.sch.uk)



**Timbers** - Miss J Stubbs - [jstubbs@nsg.northants.sch.uk](mailto:jstubbs@nsg.northants.sch.uk)