Learning Intention:

Examine the different subject preferences that you can study in year 9 Technology

You can make an informed choice as to which 2 Technology subjects you will choose to study in year 9

Year 9 Design Technology

Currently at Beckfoot Oakbank students in Year 8 study Design Technology on a rotation basis and experience learning in Product Design, Food and Textiles over the course of the year.

In year 9 students will study 2 subjects from Engineering Design, Textiles, Hospitality and Catering and Photography they will then receive 1 hours teaching and learning of each subject per week.

We believe this will ensure students are better prepared for KS4 should they choose these subjects as an option.

Year 9 Design Technology

In Year 9 you will have 2 hours of Technology a week (two lessons)

You will have chosen 2 subject preferences

You will have 1 hour teaching of each subject you choose a week (1 lesson or each)

You can choose any two combinations

We can not guarantee you will automatically get both your subject choices

Current

Year 8

- Food
- Textiles
- Materials

Currently to have to do all three of these Technology subjects throughout the year

Next Year

Year 9

- Hospitality and Catering
- Engineering Design
- Photography
- Textiles

In Year 9 you will have 2 hours of Technology a week (two lessons)

You will have chosen 2 subject preferences

You will have 1 hour teaching of each subject you choose a week (1 lesson or each)

You can choose any two combinations

We can not guarantee you will automatically get both your subject choices

Year 8 into 9 Design Technology Subject Preference Form

Name: _____ Form:_____

Subject choices are

- Engineering Design
- Photography
- Textiles
- Hospitality and Catering (Food Technology)

You must choose 2 subject preferences plus a reserve 1st choice and a reserve 2nd choice

Subject choice 1	Subject choice 2
Reserve choice 1	**Reserve choice 2**

Signed Student:_____ Signed Parent:_____

Return to school by **Friday 5th March 2021.**

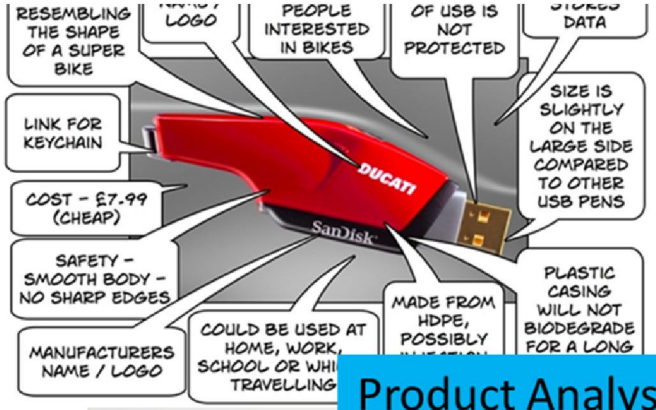
- Throughout the week beginning **Monday 22nd February 2021** during your son/daughter's Design Technology lesson teachers will explain the options choices that are available to students.

- From **Monday 22nd February 2021** there will be information posted on the school website which will help students make an informed choice of which Design Technology subjects to specialise their year 9 learning in.

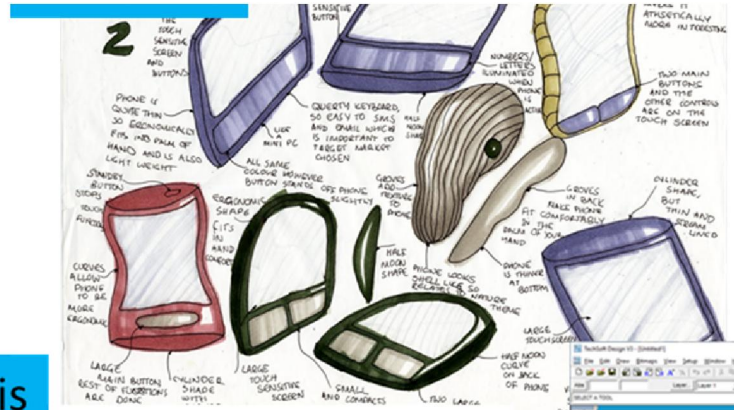
- During **Year 8 parents evening on Thursday 25th February 2021** you will be able to have conversations about our Year 9 Design Technology curriculum and your son/daughter's individual choices with their current Design Technology teacher.

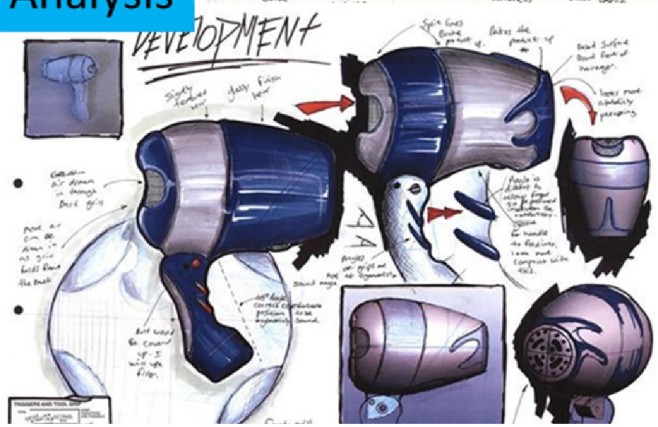
- By **Friday 5th March 2021,** the Design Technology preferences form attached to this letter must be returned to school at the year group entrance. Forms returned after this date may well result in disappointment over choices.

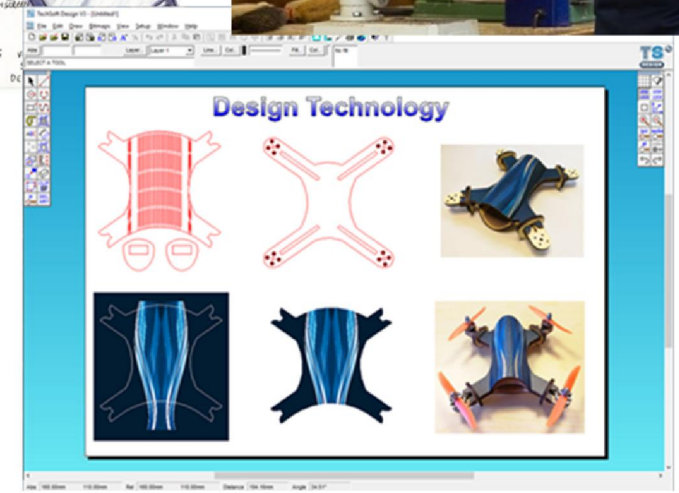
- Towards the **end of May** we will repeat the process above to finalise students subject choices



Product Analysis







ssembly

omputer Aided Design

ENGINEERING DESIGN

ENGINEERING DESIGN

What is Engineering Design?

Engineering design is a process used to identify market opportunities and solve problems which contribute to the development of new products and systems.

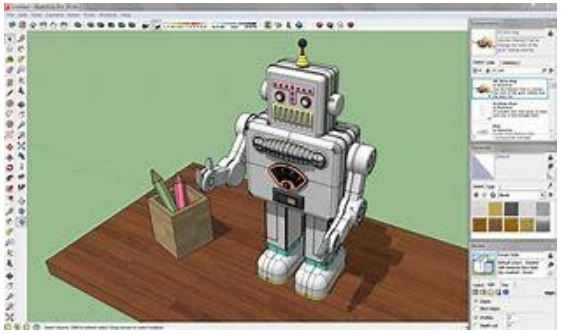
This qualification is aimed at learners who wish to study the processes involved in designing new engineered products within a design brief.

Learners will use practical skills such as drawing, computer modelling and model making to communicate design ideas.

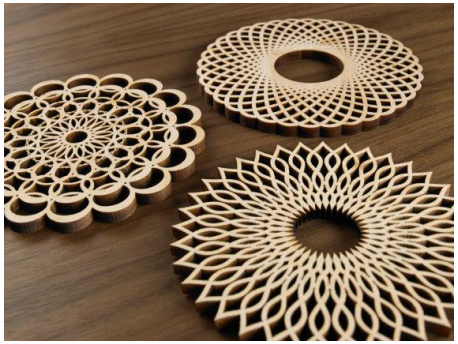
Learners will apply practical skills to produce a prototype in the form of a model and test their design ideas to inform further product development. Learners evaluate the prototype against specification points, and assess possible, practical solutions and improvements to their design.

What will you study in year 9?

- Introduction to more complex workshop tools and machinery; you will learn how to use the Fret saw, you will gain experience of cutting and shaping woods, plastics and metals.



- CAD (computer aided design)/CAM (computer aided manufacture) – you will learn how to design and be able visulise products in 3D on the computer and be able to send your own designs off to be laser cut!

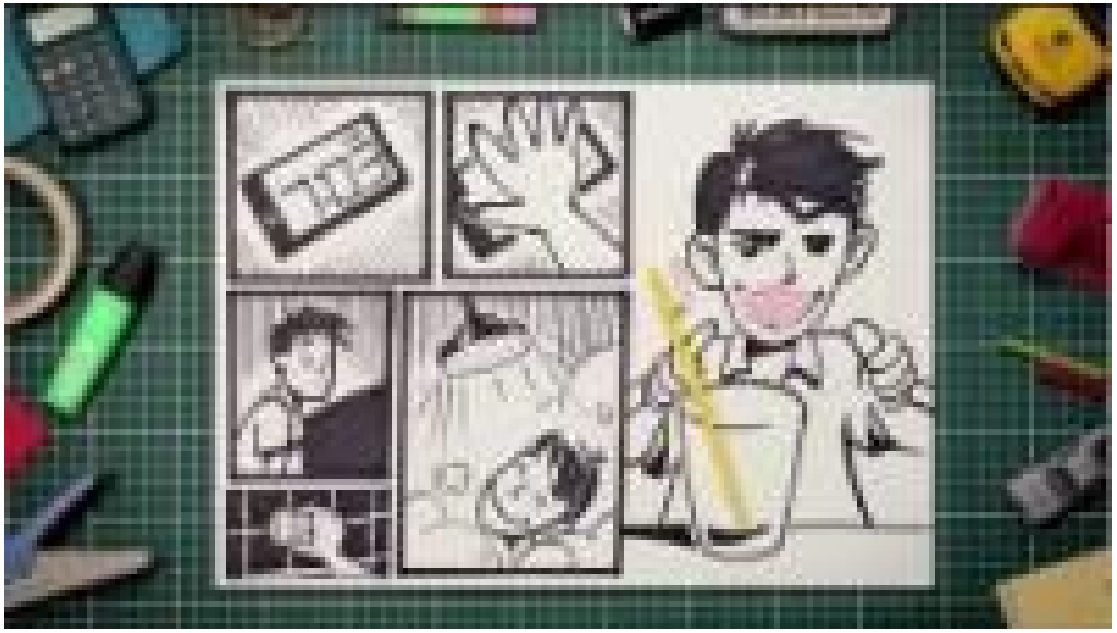


- Sustainability – How can design be environmentally friendly? You will learn about different materials, their properties and the impact they have on the environment.

ENGINEERING DESIGN

Is Engineering for me?

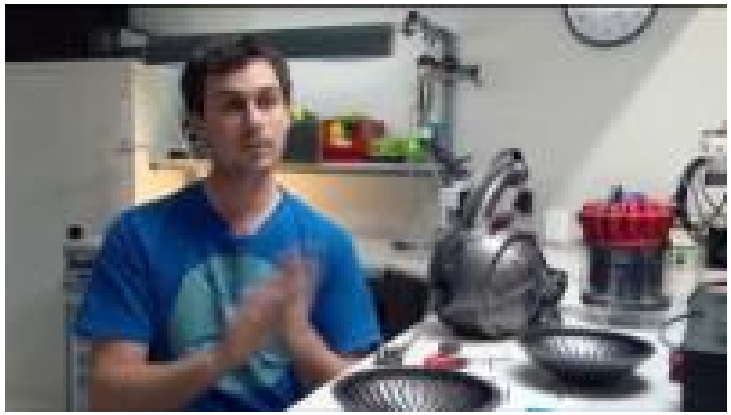
If you've ever been tempted to pull something apart to see how it works, or if you enjoy making things - everything from paper planes or jewellery, through to apps and games - then an engineering career could be for you. It's also key that you enjoy thinking outside the box to find creative solutions to problems.



Engineers have excellent:
•Problem-solving skills.
•Analytical thinking.
•Creative thinking.
•Attention to detail.
•Communication skills.
You'll also need to be calm under pressure, enjoy taking on responsibility and working as part of a big team.

ENGINEERING DESIGN

Where can this qualification take me?



Almost every gadget or built object you see has had a contribution from an engineer. The engineering field in the UK employs 5.6 million people so there are plenty of different job roles within the sector to choose from.

Engineering careers include:

- Mechanical engineers
- Aeronautic and aerospace engineers
- Chemical engineers
- Software engineers.
- Biomedical engineering
- Environmental engineers
- Electronic engineers
- Civil engineers

Other careers include:

- Product Designer
- Architect
- Structural engineer
- Mechanical engineer
- Mechanic
- Electrician
- Joinery/Carpentry

How can I start an Engineering career?

At school
The university route
The apprenticeship route

ENGINEERING DESIGN

Where can I find out more?

https://successatschool.org/careerzonesummary/2/Engineering

https://successatschool.org/advicedetails/335/Why-Study-Design-and-Technology%3F

https://www.prospects.ac.uk/jobs-and-work-experience/job-sectors/engineering-and-manufacturing

https://www.jamesdysonfoundation.co.uk/resources/engineer-stories.html

OCR
Oxford Cambridge and RSA

Beckfoot Oakbank

ENGINEERING DESIGN

Key Stage 4 – Year 10 and 11

25% External Exam **1 hour paper**	• Understand the design cycle and the relationship between design briefs and design specifications • Understand the requirements of design specifications for the development of new products • Know about the wider influences on the design of new materials
25% R106 Folder-work Product Analysis and Research	• Know how commercial production methods, quality and legislation impact on the design of products and components • Be able to research existing products • Be able to analyse an existing product through disassembly
25% R107 Folder-work Developing and presenting Engineering Designs	• Be able to generate design proposals using a range of techniques • Know how to develop design using engineering drawing techniques and annotation • Be able to use Computer Aided design software and techniques to produce and communicate design proposals
25% R108 Folder-work 3D Design realisation	• Understand and think about key considerations when making a prototype • Understand safe working practices used when making a prototype • Be able to produce a prototype

ENGINEERING DESIGN

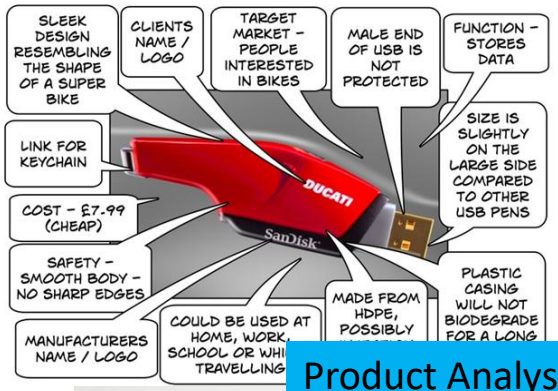
What am I expected to complete?

- Create a folder of work that meets the 3 folder-work unit requirements.
- You will research and analyse a product, produce 2D and 3D designs that meet a design brief and then manufacture a prototype – testing and evaluating your design.

25%
R106
Folder-work
Product Analysis and Research

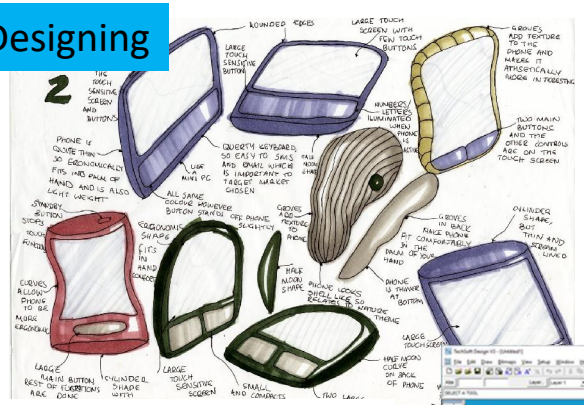
25%
R107
Folder-work
Developing and presenting Engineering Designs

25%
R108
Folder-work
3D Design realisation



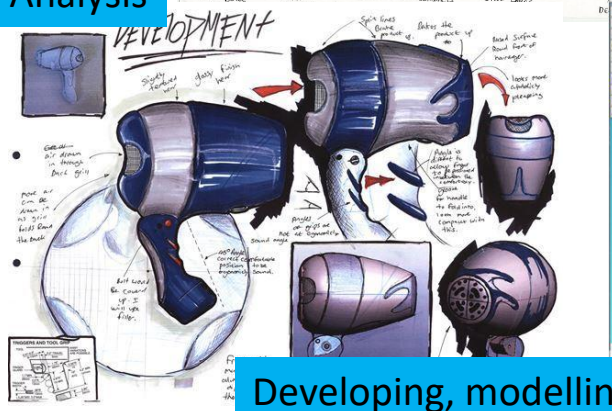
Product Analysis

Designing

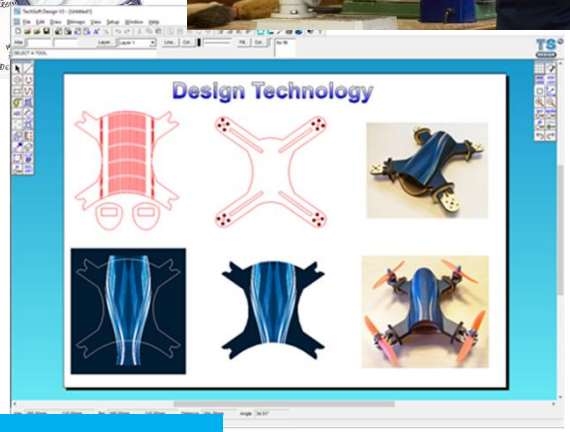


Manufacturing

Disassembly



Developing, modelling & testing



Computer Aided Design

ENGINEERING DESIGN

What is the GCSE grade equivalent?

LEVEL 1	LEVEL 2
PASS = Grade 1	PASS = Grade 4/5
MERIT = Grade 2	MERIT = Grade 6
DISTINCTION = Grade 3/4	DISTINCTION = Grade 7
	DISTINCTION* = Grade 8

HOSPITALITY AND CATERING

Welcome to…

Year 9
Hospitality and Catering

The future of.. **Hospitality and Catering** :

"The industry has grown over the last 20 years and, despite recession, it is predicted to continue to grow. The sector as a whole currently employs almost 2 million people".

Hospitality and Catering ?

Our course aims to…

- …Support students who want to learn about this vocational sector and support potential careers.
- …Provides a foundation for further study.
- …Provide an opportunity to develop a range of specialist and general skills that would support their progression into employment.

The Hospitality and Catering

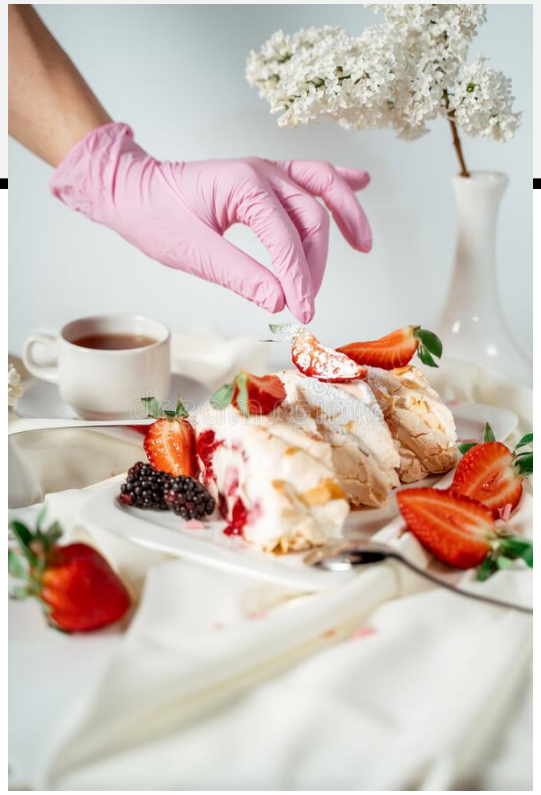
You will learn about:

- All the different parts of hospitality and catering industry.
- Different types of hospitality and catering establishment roles.
- Different types of hospitality and catering provisions for particular situations.
- Front of house and kitchen operations.
- The needs and requirements of customers
- What makes hospitality and catering businesses succ
- Issues related to nutrition and food safety

Hospitality and Catering

You will apply your learning in order to…

- **Plan, prepare, cook** safely and hygienically and then serve a variety of nutritional inspired dishes.



Hospitality and Catering

What can I do next…?

Teaching

Journalism

Sport Science

Social Work

Marketing

Consumerism

Product Development

Food Science

Environmental Health

Catering

Nutrition

Dietetics

TEXTILES

SPECIALISE IN FASHION
AND
TEXTILES

Design Manager
Mills
Product Development Manager
Print & Graphic Designer
Global Brands
Brand Manager
Fashion/Home Stylist
Retail Brands
Sourcing Head
Category Head
Online Stores
APPAREL & FASHION ACCESSORIES
Textile Design Graduate
HOME & LIFESTYLE ACCESSOIRIES
Researcher
Project Manager
Textile Technical Consultant
Craft Sector
Apparel
Home
Fashion Accessories
Interior Designer
Entrepreneur
Content Developer
Fashion Blogger
Media
Creative Director
Colourist
Trend Forecaster
Design Studios
Buying Houses
Trend Analyst
Export Houses
Textile Designer
Merchandiser
Merchandizing Manager

Fashion designer

Fashion designers design clothing and fashion ranges.

Average salary
(a year)

£20,000 to £80,000
Starter Experienced

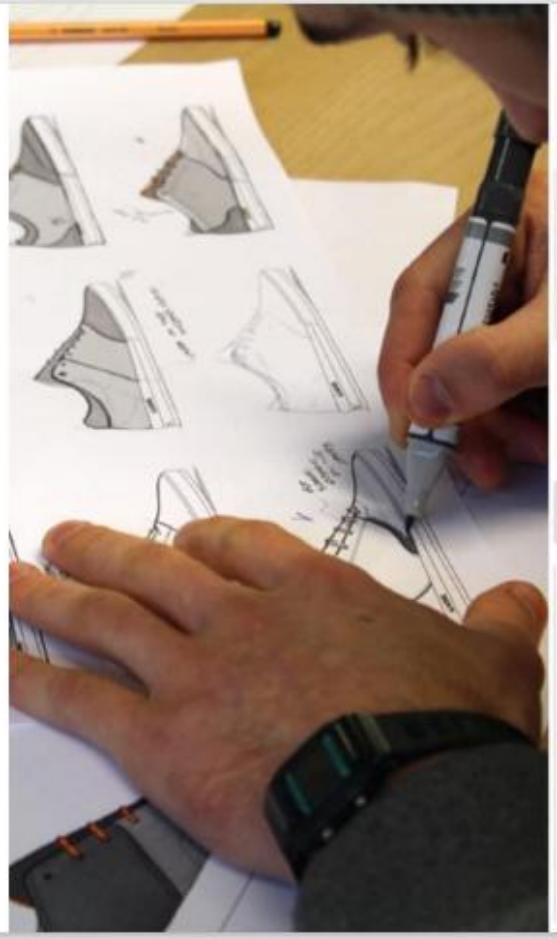
Typical hours
(a week)

40 to 42
variable

Skills and knowledge

You'll need:

- the ability to come up with new ways of doing things
- the ability to use your initiative
- excellent verbal communication skills
- to be thorough and pay attention to detail
- to be flexible and open to change
- ambition and a desire to succeed
- the ability to organise your time and workload
- thinking and reasoning skills
- being able to use a computer terminal or hand-held device may be beneficial for this job.



Footwear designer

Footwear designers create new designs and sample patterns for men's, women's and children's footwear.

Average salary
(a year)

£16,000 to £60,000
Starter Experienced

Typical hours
(a week)

40 to 42
variable

Skills and knowledge

You'll need:

- to be thorough and pay attention to detail
- the ability to come up with new ways of doing things
- the ability to use your initiative
- to be flexible and open to change
- ambition and a desire to succeed
- thinking and reasoning skills
- excellent verbal communication skills
- active listening skills
- being able to use a computer terminal or hand-held device may be beneficial for this job.

Window display designers that create ideas that draw us into shops.

Visual merchandisers that design where items and ranges should fit in stores thinking about display and having the biggest impact.

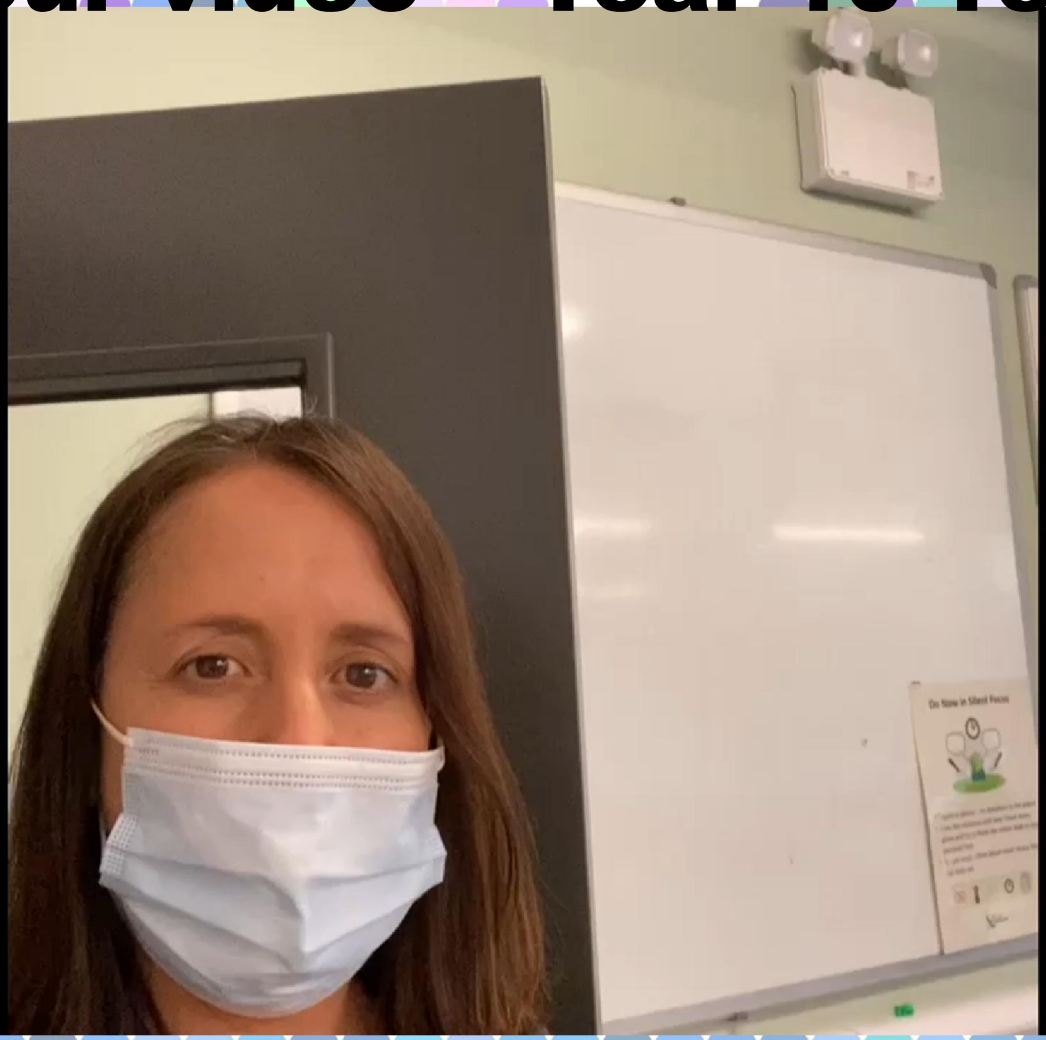
You could be a fashion designer creating ideas for clothing designs.

…or combine your love of fashion with English to become a Fashion Journalist

Or Image consultant who follows fashion and can tell you
what is on-trend at the minute

You could be a Textile designer or Textiles technologist who ar
people that design the actual fabric we wear
FORM
WOMEN 42 2011
EU STANDARD

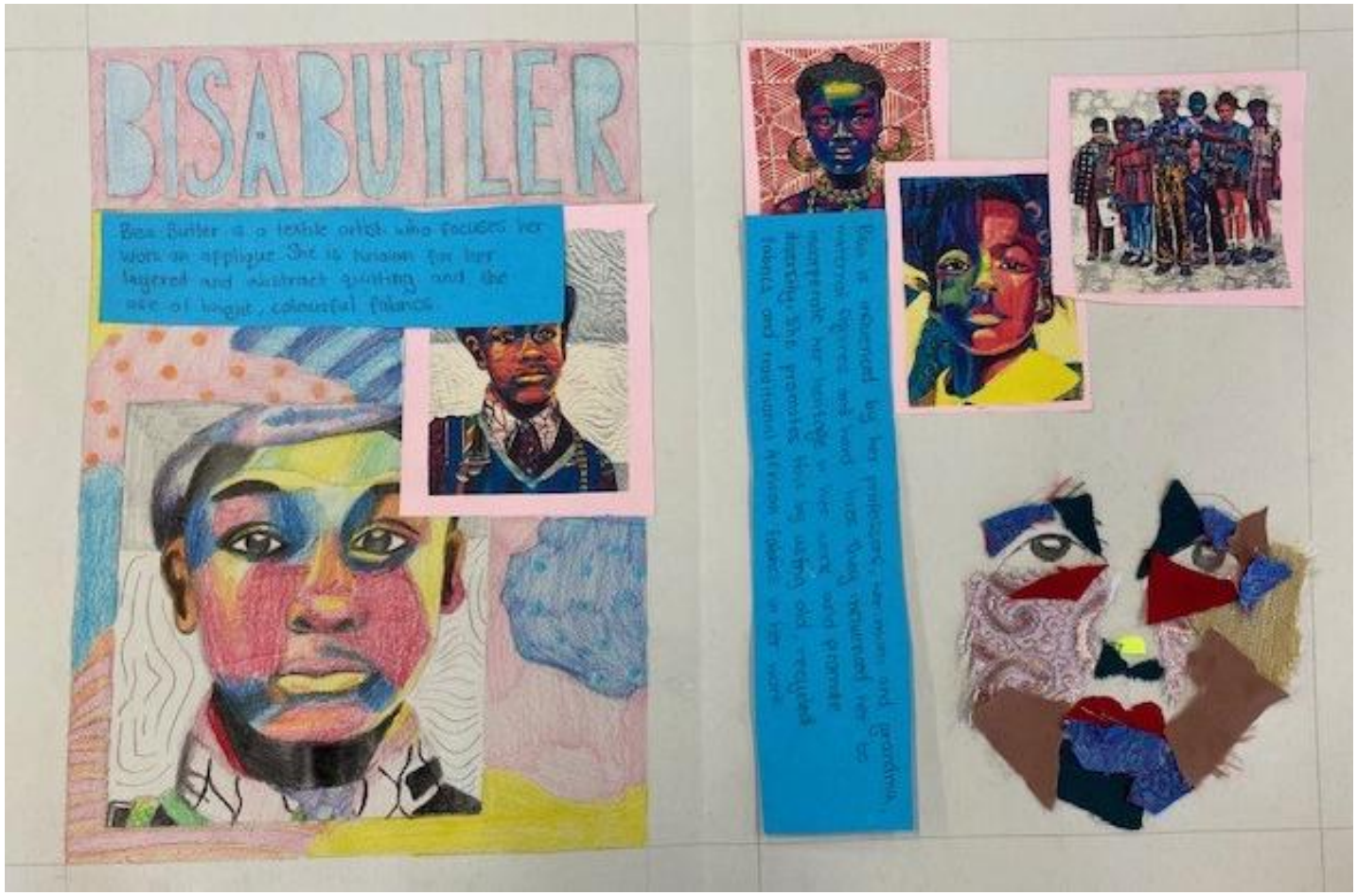
Watch our video – Year 10 Textiles.

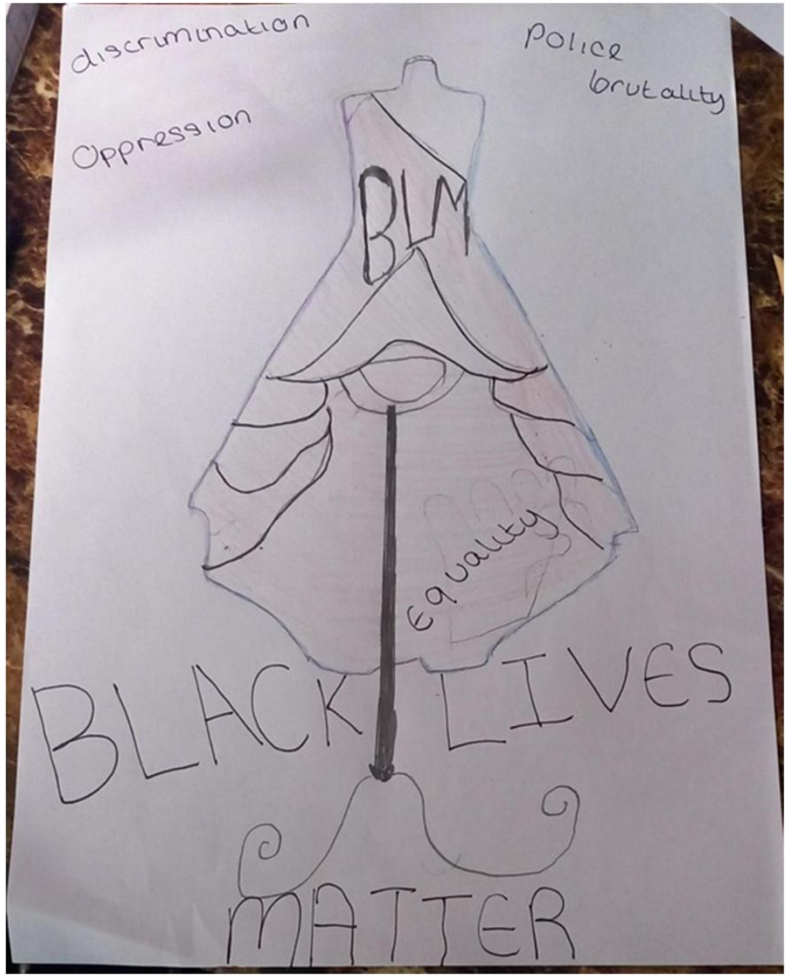


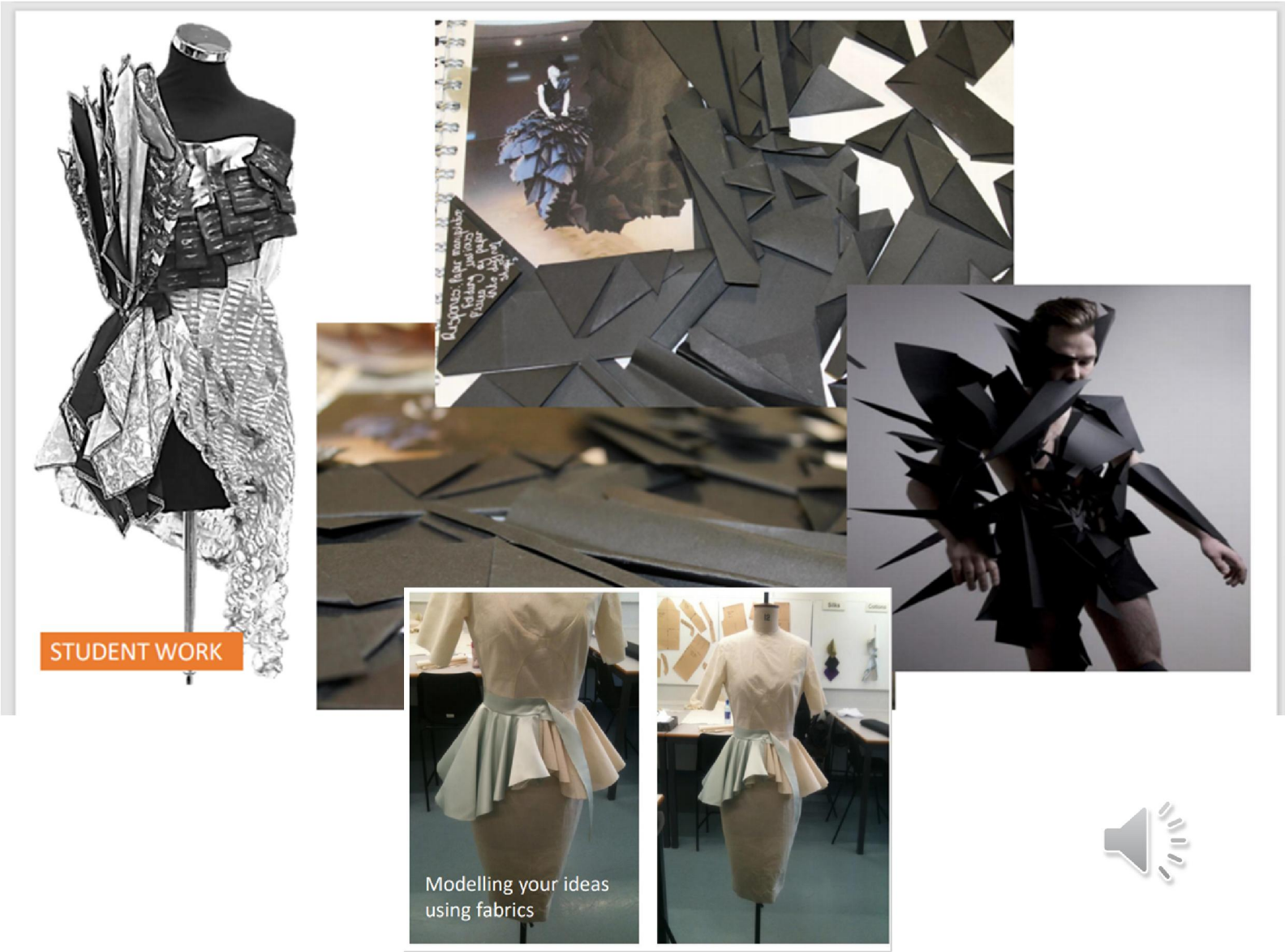
Year 9

Fashion Messages – Cultural Diversity Project

Artist Studies, drawings, repeat patterns, Photoshop, Collage, stitching, dyeing & printing, fashion and interior design.

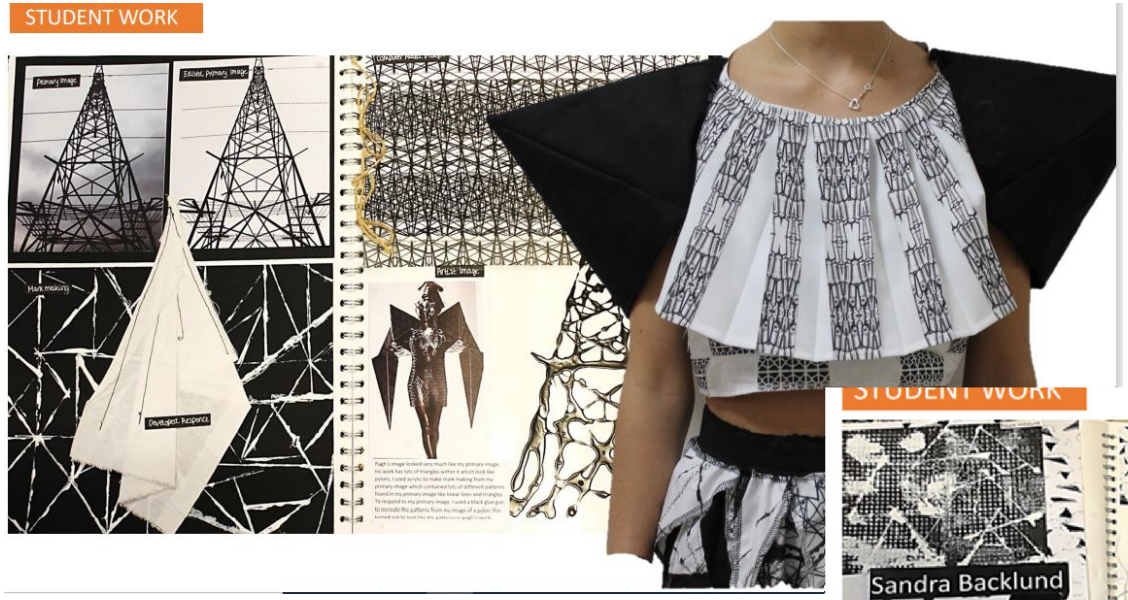


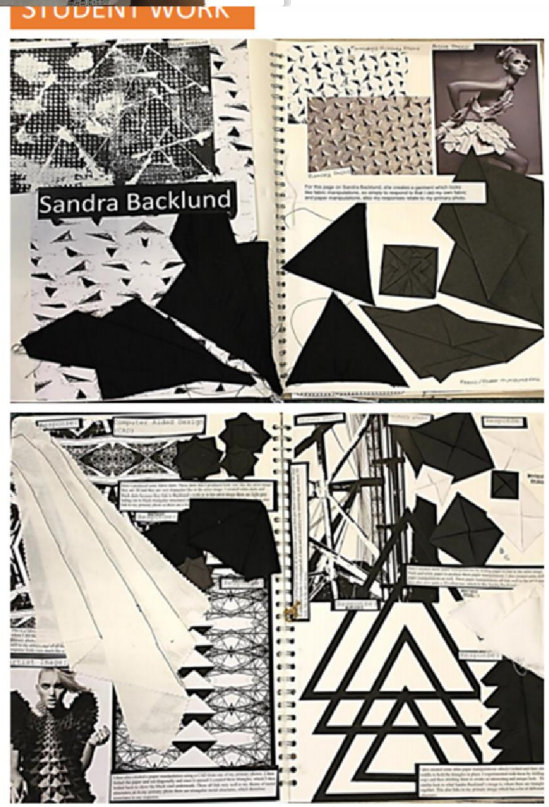


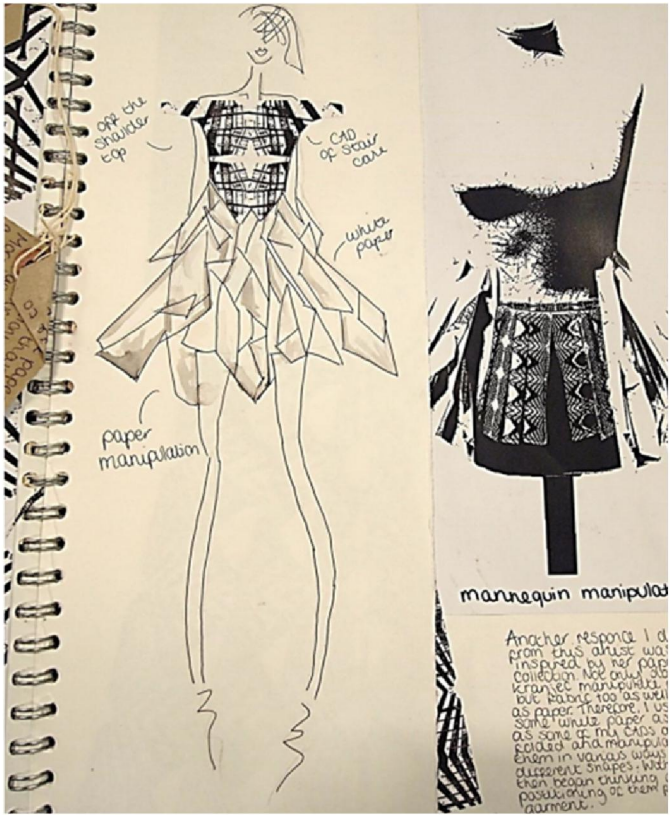


<u>Year 10</u>
60% Coursework
Fashion Structures Project – Final Bodice / Dress Design created.

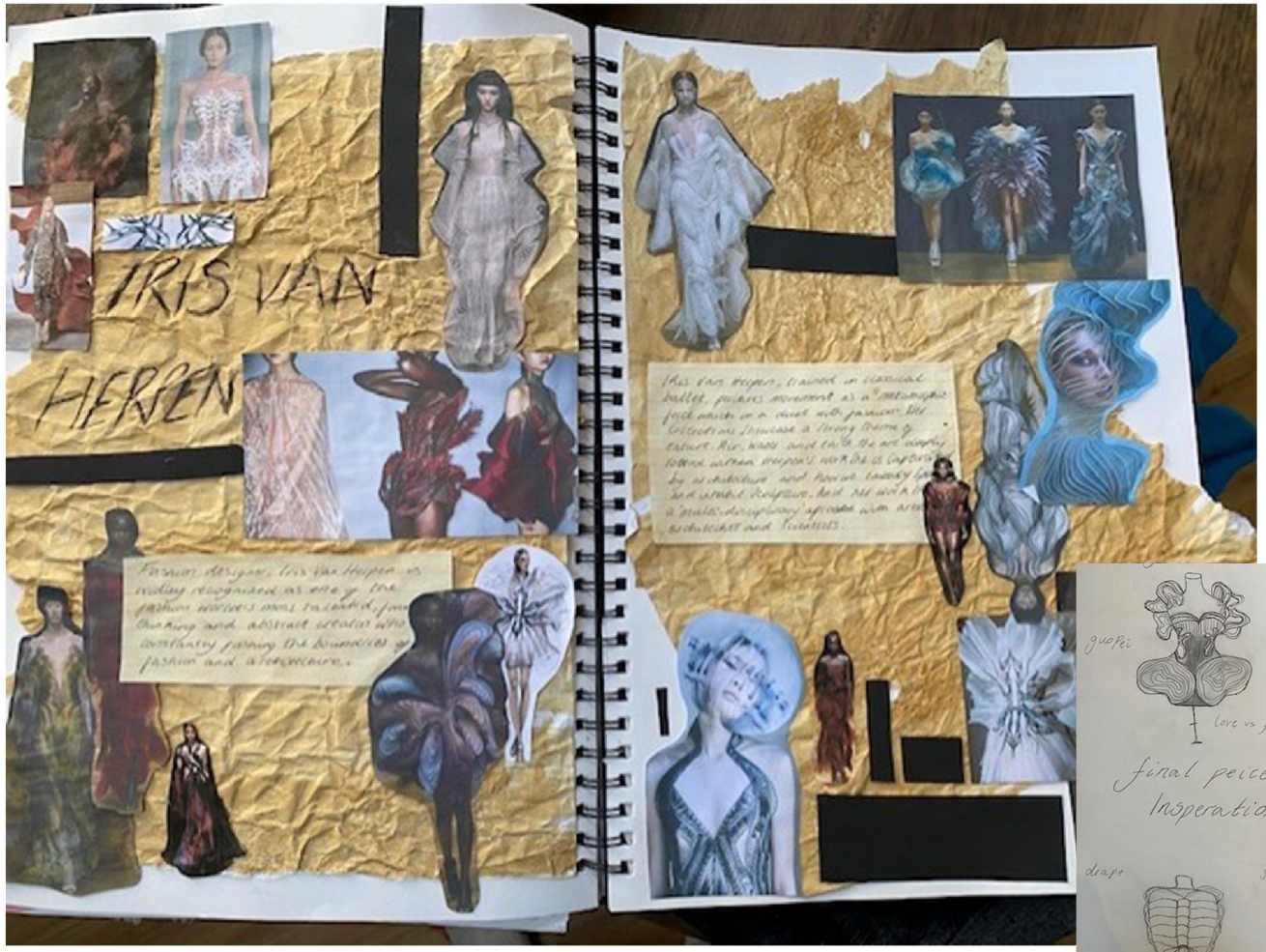
<u>Year 11</u>
Sep – Dec Mock Exam
40% Examination Project
Jan-March includes prep work in lessons.
April – 10hr practical project.

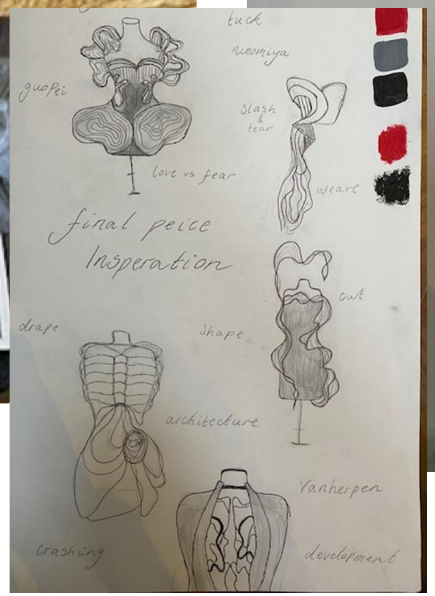






Examples of students work


IRIS VAN
HERPEN


tuck
Naomiya
guapei
Slash & tear
love vs fear
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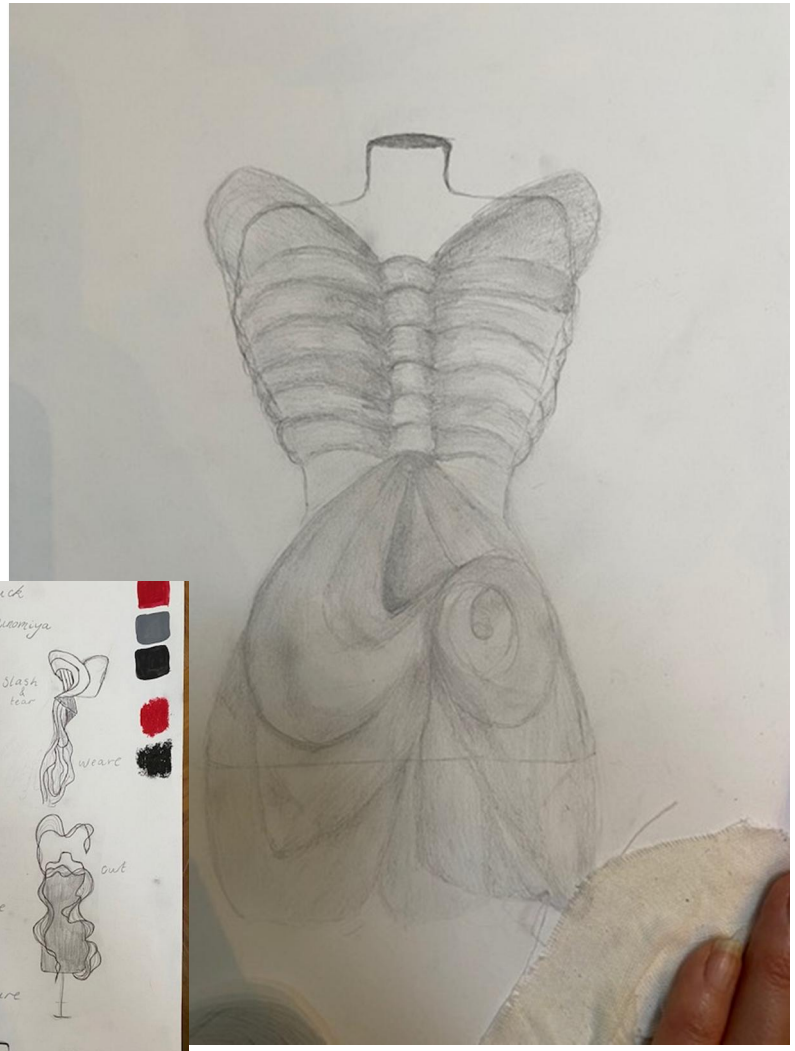
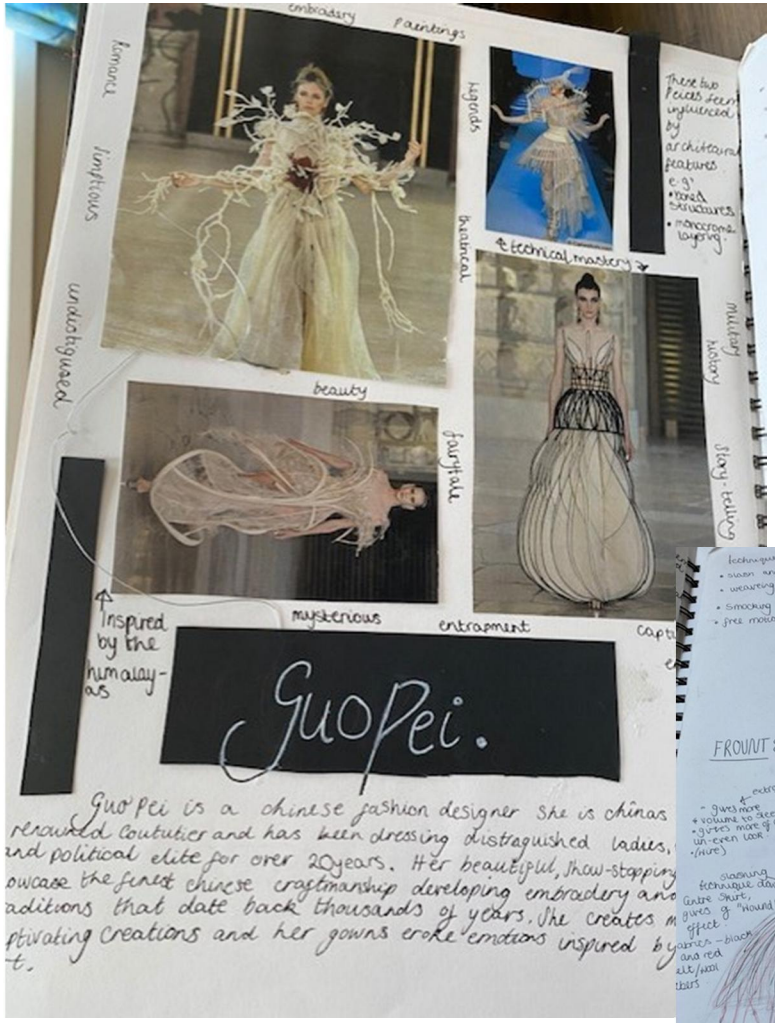
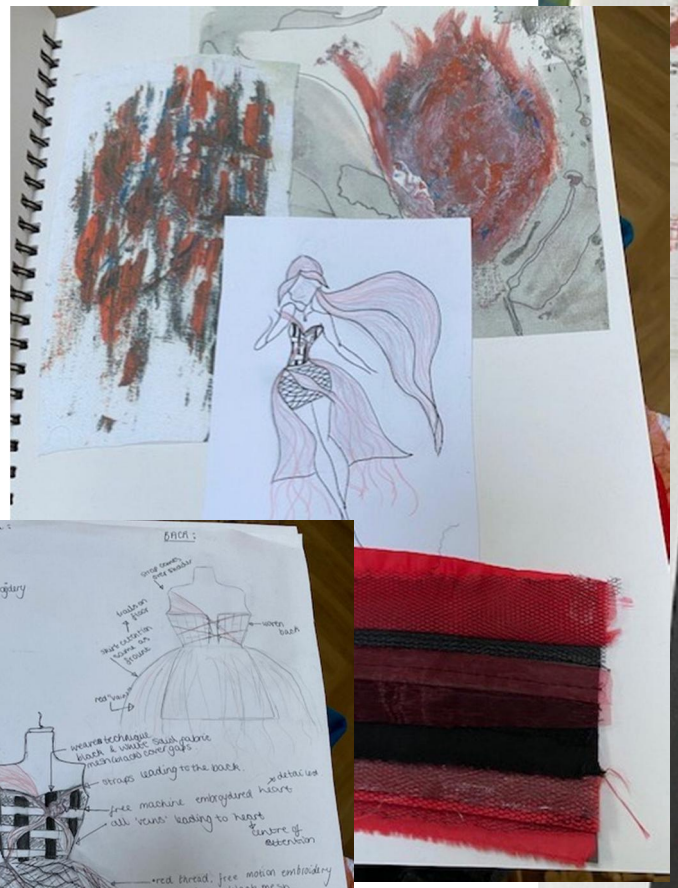
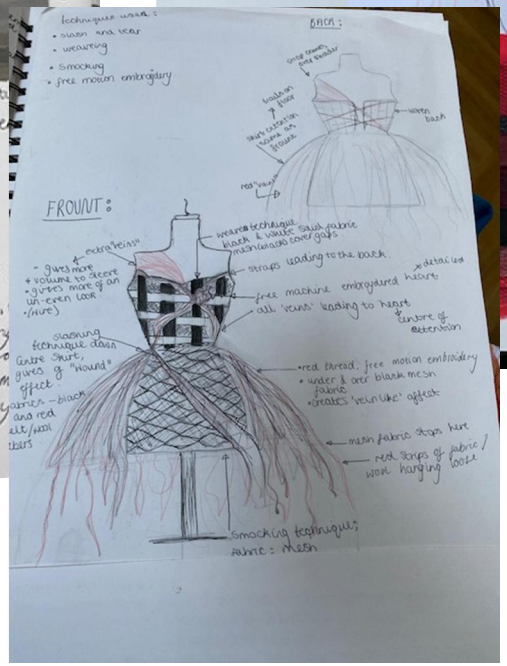
final peice
Insperation
out
drape
Shape
architecture
Vanherpen
crashing
development



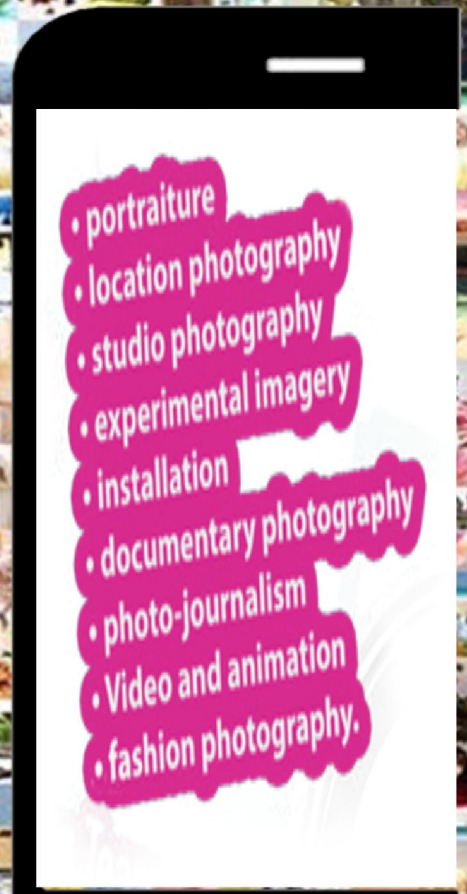

embroidery
paintings
romance
legends
These two pieces been influenced by architectural features
e.g.
• road structures
• monochrome layering.
limitless
botanical
technical mastery
undistinguished
beauty
mighty
story-telling
fairytale
mysterious
entrapment
Inspired by the humaley-as
GuoPei.
Guo Pei is a chinese fashion designer She is chinas renowned Coututier and has been dressing distraguished ladies, and political elite for over 20years. Her beautiful, show-stopping owcase the finest chinese craftmanship developing embradery and aditions that date back thousands of years. She creates m ptivating creations and her gowns evoke emotions inspired by t.




technique work:
• sewn and wear
• weaving
• Smocking
• free motion embroidery
BACK:
FRONT:
extra "skin"
• gives more volume to sleeve
• gives more of an un-even look (hire)
weave technique black & white satin fabric
straps leading to the back.
free machine embroidered hairs
all 'runs' leading to target centre of attention
slashing technique down centre shirt, gives of "wound" effect
• red thread, free motion embroidery
• under & over black mesh fabric
• creates 'vein like' effect
mesh fabric stops here
red strips of fabric / wool hanging loose
Smocking technique;
fabric: mesh

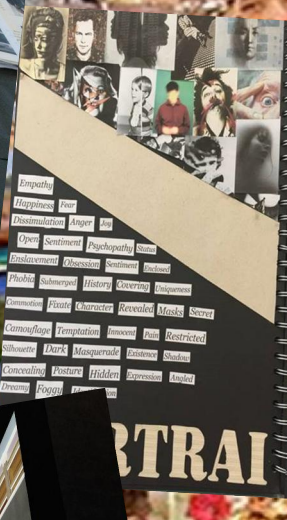
PHOTOGRAPHY

Why choose photography?
"It's the best course in school"



Are you creative and imaginative?
Do you enjoy exploring ideas and looking at things in different ways? If so, you should consider a course in photography

You will enjoy developing your understanding of the visual world,
learning practical skills and responding to ideas and issues in ways that are



Examples of student work

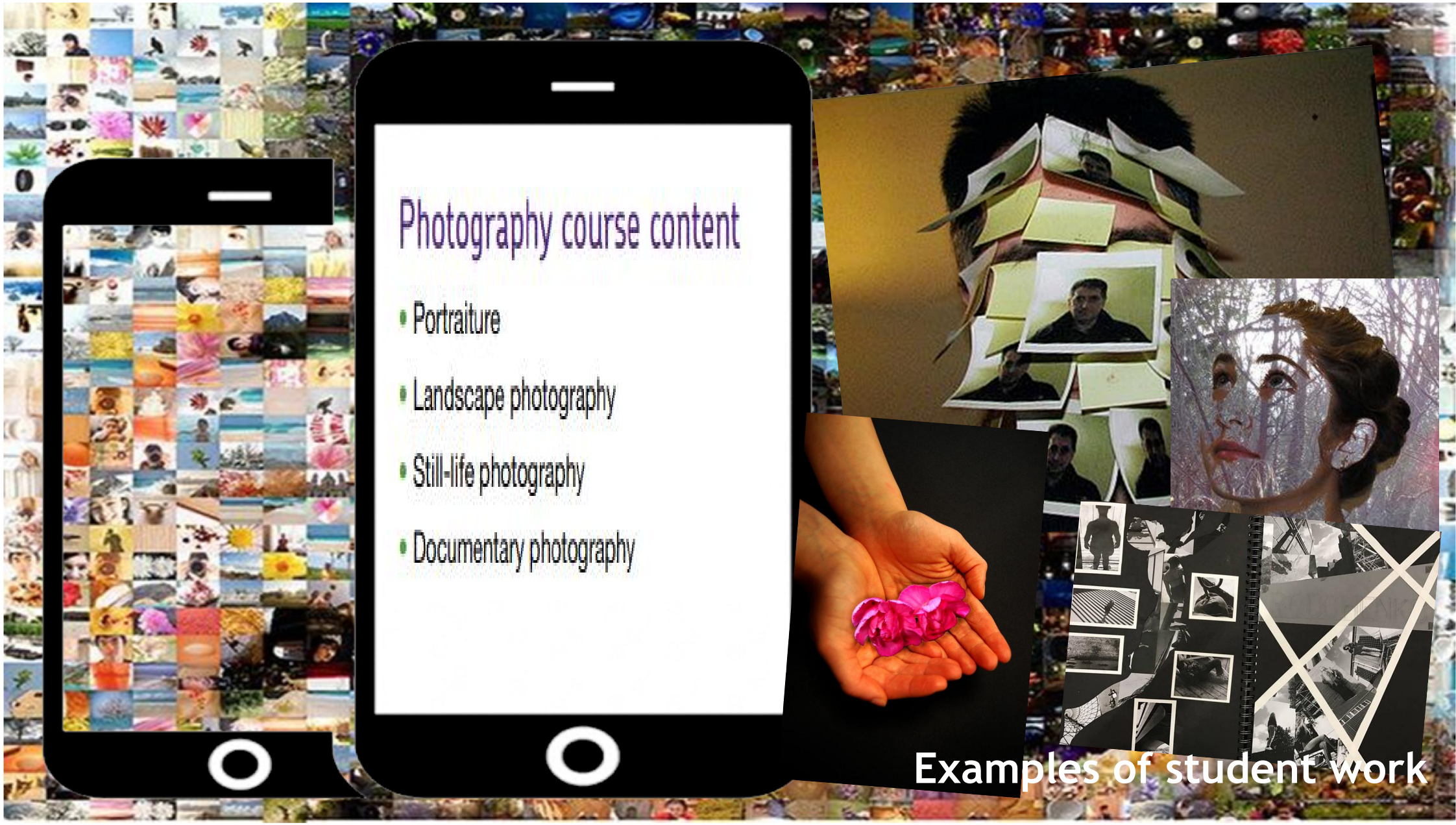
Photography is about looking, learning, thinking and communicating ideas. It inspires creative thinkers.

Photography means ‘drawing with light’ and that is what photographers do when they take a picture.

Many photographers have explored various techniques to create images that make a personal statement about things that have interested or concerned them.

The most exciting aspect of photography is that you are capturing the world as you see it.

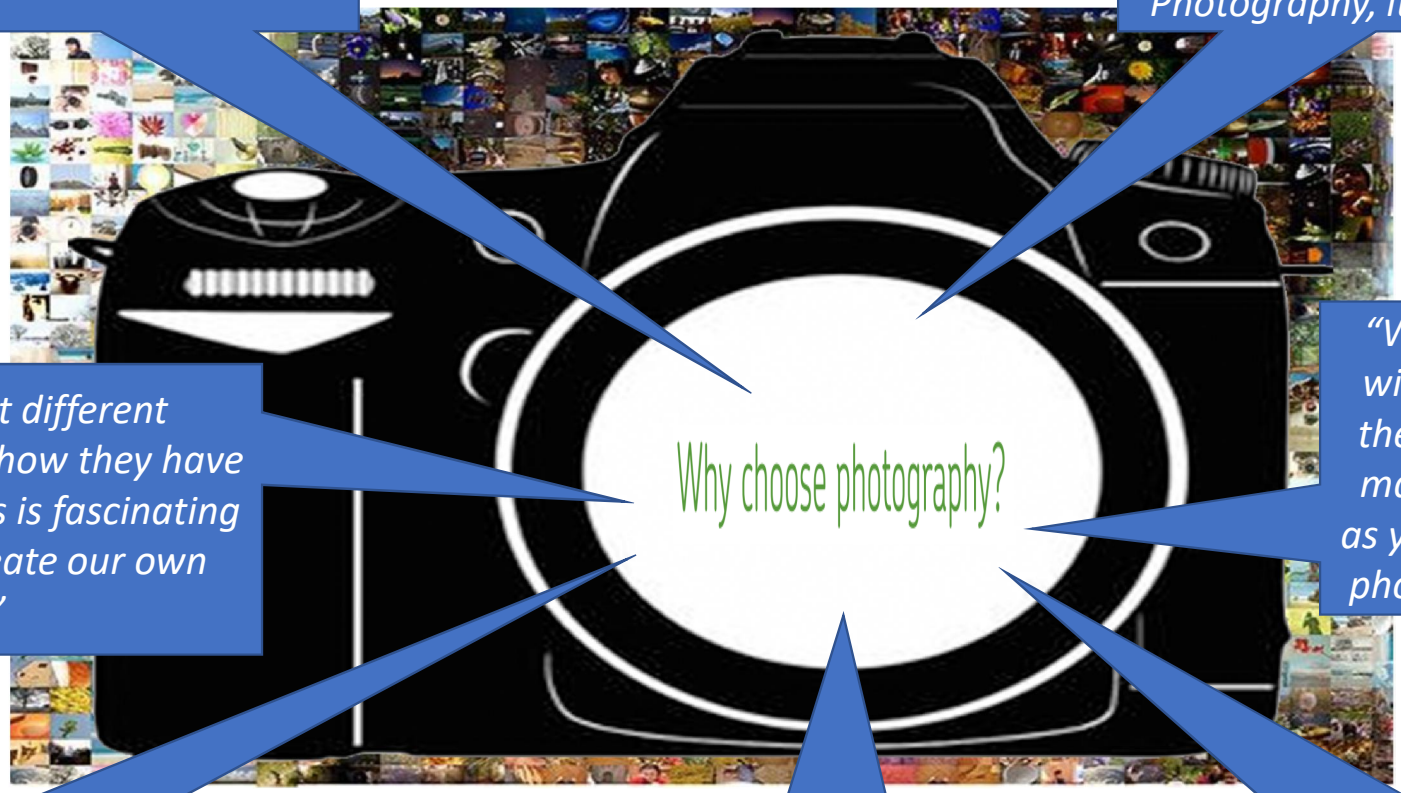
Examples of student work


Photography course content
Portraiture
Landscape photography
Still-life photography
Documentary photography
Examples of student work

Possible career options

Studying a photography related degree at university will give you all sorts of exciting career opportunities, including:

- Commercial photographer
- Fashion photographer
- Filmmaker
- Fine art photographer
- Forensic photographer
- Industrial photographer
- Medical photographer
- Nature photographer
- Photographic illustrator
- Photographic technician
- Teacher
- Photojournalist
- Picture editor
- Researcher
- Social photographer
- Sports photographer



"Learning how to manipulate photos using Photoshop is fun"

"I had never used a digital camera before I started GCSE Photography, it is really exciting"

"Learning about different photographers and how they have created their photos is fascinating and it helps us create our own ideas"

"We get to experiment with loads of idea, and the best bit is it doesn't matter if you go wrong as you can just delete the photo and take it again"

"Photography is just good fun!!"

"The best bit is that we are not always in the classroom, we are often outside and around school taking photos"

"I love being creative and I love art, but I am not that good at drawing, so using a camera is perfect for me"

- Throughout the week beginning **Monday 22nd February 2021** during your son/daughter's Design Technology lesson teachers will explain the options choices that are available to students.

- From **Monday 22nd February 2021** there will be information posted on the school website which will help students make an informed choice of which Design Technology subjects to specialise their year 9 learning in.

- During **Year 8 parents evening on Thursday 25th February 2021** you will be able to have conversations about our Year 9 Design Technology curriculum and your son/daughter's individual choices with their current Design Technology teacher.

- By **Friday 5th March 2021,** the Design Technology preferences form attached to this letter must be returned to school at the year group entrance. Forms returned after this date may well result in disappointment over choices.

- Towards the **end of May** we will repeat the process above to finalise students subject choices

Forms posted home and information on website

More information during parents evening

Deadline to return form

- Complete the forms survey that will help us know your initial thoughts
- This is NOT your final choices and you MUST return the form
- The form must be signed by a parent/carer or emailed in by a parent/carer