My Learning
My Future

Where can studying Product Design take you?

Highlighting the relevance of Product Design to future careers and opportunities

My Learning My Future

Why Product Design matters

Have you ever considered where studying Product Design can take you?

Today, we'll be exploring some of the career opportunities that are available to you, as well as the various pathways you can take to get there.

What pathways can you take with this subject?

What do you think these roles involve (daily task, etc.)?

What careers can you think of that use Product Design?

Why is Product Design an important subject?
Why Design matters - The School of Life - YouTube

What skills do you think you might need for these roles?

![My Learning My Future logo]

![The Careers & Enterprise Company logo]

Explore a career as a...

Here are some example roles and careers linked to

Product Design

Furniture Maker/Carpenter

BBC Bitesize case study

BBC Bitesize case study

Product Designer

BBC Bitesize case study

First Careers case study

Youtube case study

Architectural Assistant/
Technologist

BBC Bitesize case study

![My Learning My Future]

Explore a career as a...

Here are some example roles and careers linked to

Product Design

Design and Development Engineer
BBC Bitesize case study

UX Designer
BBC Bitesize case study

Packaging Technologist
Youtube case study

BBC Bitesize case study

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Discover more about the role

Explore careers using National Careers Service and find out about what jobs involve and how they are right for you

Includes:

- Average salary
- Typical hours
- Work patterns
- Pathways/How to become
- Essential Skills
- Daily tasks
- Career path and progression
- Current opportunities

Research Ideas:

Carpenter
Product Designer
Architectural Technologist
Design and Development Engineer
UX Designer
Packaging Technologist

National Careers Service

We provide information, advice and guidance to help you make decisions on learning, training and work.

This service is available to people who live in England.

Skills assessment

Learn more about your skills and match them to potential new careers.

Assess your skills

Explore careers

Choose from over 800 career profiles to discover what each job involves.

Search job profiles

Find a course

Look for online learning opportunities and training courses local to you.

Look for courses

Careers advice

Making career choices

Whether starting your career, changing job or if you have been affected by COVID-19, understand and make the right choice for you.

Getting a job

Be successful in the recruitment process with tips on great CVs, interviews and graduate scheme applications.

Progressing your career

Move up in your career by developing new skills. Find opportunities like volunteering and online learning.

About us

The National Careers Service can help you with your career, learning and training choices. Find out more about the different ways we can support you.

Speak to a careers adviser

Wherever you are in your decision-making, you can call us on 0800 100 900 or use webchat.

Follow us

Twitter
Facebook
LinkedIn
YouTube

Why not teach Product Design?

Start in the classroom, where you go from there is up to you. Bring your passion for your subject, keep learning, and pass your knowledge onto others

- No two days are the same – and neither are the pupils
- Once qualified you can teach throughout your life
- You could teach abroad

- Progress your career into leadership and management
- Bring your outside interests into the classroom and your subject
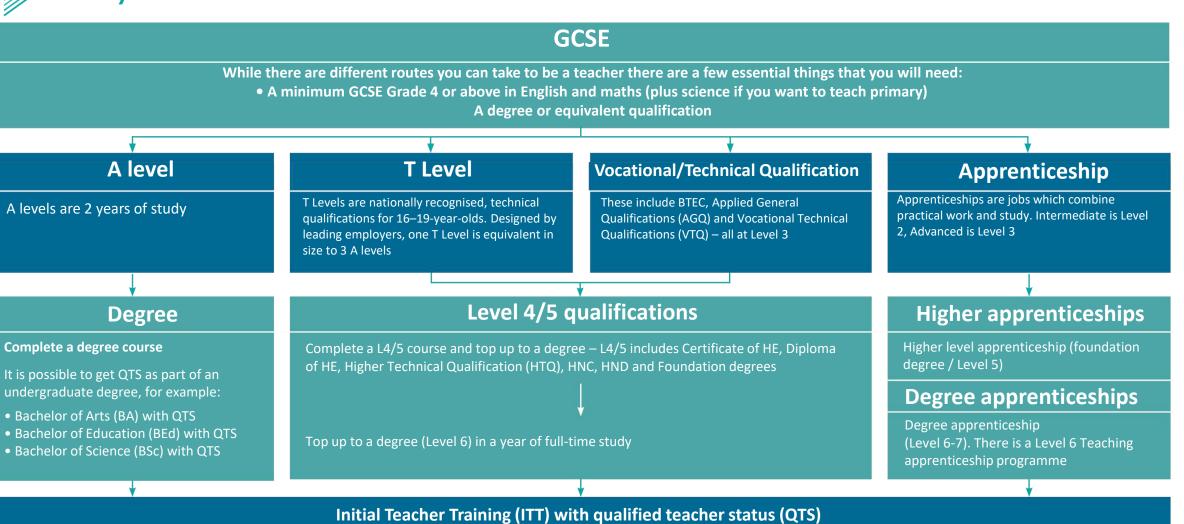
Why is STEM important?

- It boosts essential skills such as problem solving and curiosity
- It helps you see and understand the wider world around you
- It helps young people become future entrepreneurs

Explore teaching

Vjendra's Story

Every Lesson Shapes a Life

The right skills to teach?

Love to keep learning?

Love to nurture imagination?

What makes a great teacher?

Teaching — Every Lesson Shapes a Life

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GCSE

While there are different routes you can take to be a teacher there are a few essential things that you will need:
- A minimum GCSE Grade 4 or above in English and maths (plus science if you want to teach primary)

A degree or equivalent qualification

A level

A levels are 2 years of study

T Level

T Levels are nationally recognised, technical qualifications for 16–19-year-olds. Designed by leading employers, one T Level is equivalent in size to 3 A levels

Vocational/Technical Qualification

These include BTEC, Applied General Qualifications (AGQ) and Vocational Technical Qualifications (VTQ) – all at Level 3

Apprenticeship

Apprenticeships are jobs which combine practical work and study. Intermediate is Level 2, Advanced is Level 3

Degree

Complete a degree course

It is possible to get QTS as part of an undergraduate degree, for example:

- Bachelor of Arts (BA) with QTS
- Bachelor of Education (BEd) with QTS
- Bachelor of Science (BSc) with QTS

Level 4/5 qualifications

Complete a L4/5 course and top up to a degree – L4/5 includes Certificate of HE, Diploma of HE, Higher Technical Qualification (HTQ), HNC, HND and Foundation degrees

Top up to a degree (Level 6) in a year of full-time study

Higher apprenticeships

Higher level apprenticeship (foundation degree / Level 5)

Degree apprenticeships

Degree apprenticeship (Level 6-7). There is a Level 6 Teaching apprenticeship programme

Initial Teacher Training (ITT) with qualified teacher status (QTS)

Teacher

Why not teach an activity?

- Pick a topic in Product Design you think you would like to try and teach
- Agree your choice of topic with your teacher and the length of session (and with which group)
  (It may be the perfect opportunity to try this with a younger class lower down the school, or as a transition activity for Y6)
- Plan a short activity to cover the topic in a way you feel will be engaging and memorable for your peers as part of a lesson starter, main activity or plenary

Consider:
- What are you trying to achieve (teach)? Be clear what information you intend to impart
- How will you make it fun? How will you make it 'stick'? How long will this take?
- What type of activity will you plan for? (written/practical)
- How will you know others have learned it?
- How will you make sure everyone is stretched and challenged?
- What will the end-product be?

Once you have checked it with your teacher, try the lesson with a small group (as agreed by your teacher)
Try and get feedback during and after the session from those in the lessons and from the teacher

After, consider:
- What you enjoyed about the experience
- Whether this is something, with training, you would enjoy
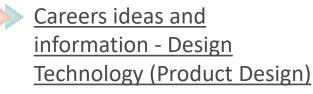- How you felt when others learned from you

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5| Non-obvious jobs using Product Design: Ever thought about..?

Everyone Can Be Creative

How to become an Architectural Assistant: Hannah's story

How to become an Innovation Manager: Holly's story

How to become a Product Designer: Michael's story

Careers ideas and information - Design Technology (Product Design)

Blacksmith | Explore careers | National Careers Service

Engineering Craft Machinist | Explore careers | National Careers Service

Design and Development Engineer | Explore careers | National Careers Service

BBC Bitesize

https://www.bbc.co.uk/bitesize/articles/zhst2sg

icould

National Careers Service

https://nationalcareers.service.gov.uk/explore-careers

MYPATH Job of the week (Product Design)

Urban Designer

Furniture Designer

Quantity Surveyor

Product Design careers in a changing world: How can I future-proof my career pathway?

The world will be changing drastically in the next few years to cope with the impacts of climate change and nature loss, and the need to lower greenhouse gas emissions and unsustainable practices. How might this steer your choice of career path using your Product Design skills?

Sustainability means meeting our own needs without compromising the ability of future generations to meet their own needs.
(UN definition)

Product Design careers in a changing world

▶▶ **Sustainable Design Entrepreneur**

▶▶ **Sustainable Product Designer**

▶▶ **Sustainable Business Co Founder**

**Every career
can be sustainable**
1. Use your skills and passion for sustainability to help businesses adapt
2. Work for a company with sustainable values
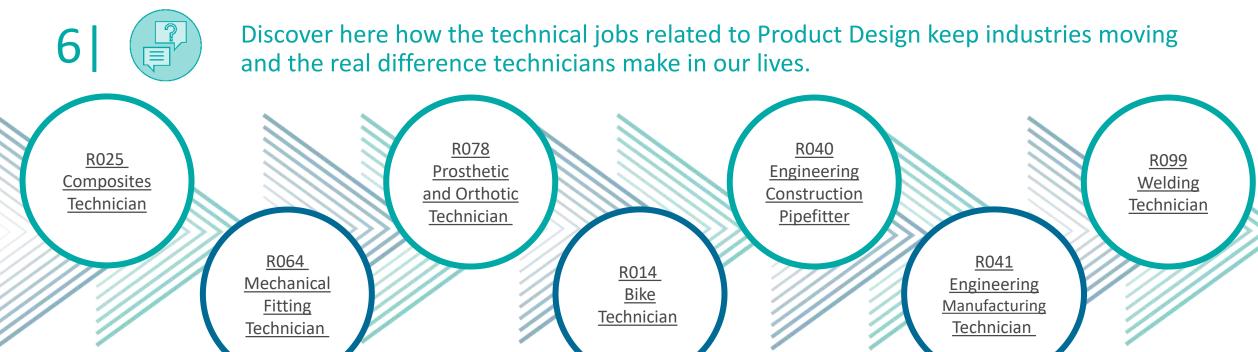3. Innovate for a sustainable future

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SUSTAINABLE FUTURES

WWF

Villiers Park
Educational Trust

Founders4Schools

A spotlight on Technicians using Product Design

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6|

Discover here how the technical jobs related to Product Design keep industries moving and the real difference technicians make in our lives.

R025 Composites Technician

R064 Mechanical Fitting Technician

R078 Prosthetic and Orthotic Technician

R014 Bike Technician

R040 Engineering Construction Pipefitter

R041 Engineering Manufacturing Technician

R099 Welding Technician

GATSBY

Technicians We make the difference

Visit the Gallery here

Find further resources here

7 | Product Design Pathways

Combine Study and Work

Study

Work

7| **Combine Study and Work**

Apprenticeships

- Trainee Designer
- Room Designer
- Furniture Designer
- Junior CAD Designer
- Games Designer
- Design Operations

- Product Designer and Development
- Junior Product Design Engineer
- Construction Technician

Find more >

T Levels

T Levels | National Careers Service Digital Production, Design and Development

T Levels | Design and Development for Engineering and Manufacturing

T Levels | Engineering Manufacturing, Processing and Control

T Levels | Design, Surveying and planning for Construction

T Levels | Building Services Engineering for Construction

T Levels | Onsite Construction | T Levels

T Levels | Craft and Design | T Levels

VTQs

Vocational Technical Qualifications (VTQs) | National Careers Service

- Engineering
- Design and Technology
- Engineering Design
- Creative iMedia

- Digital Media
- Product Design

7 | Study Pathways

HTQs (Higher Technical Qualifications)

Higher technical qualifications (HTQs) | National Careers Service

You might find courses in:

- Product Design Engineering
- Building Services Engineering
- Digital Technologies
- Engineering
- Civil Engineering

- Garden and Landscape Design
- Games Production and Design
- 3D Design
- Architectural Design Technology
- Digital Learning Design

A levels

A levels | National Careers Service

You might find courses in:

- Electronics
- Computer Science
- Design and Technology: Product Design
- Engineering

- Engineering: Design Engineering
- Engineering: Design Mechatronics
- Engineering Technology: Video Games

Higher education

Higher education | National Careers Service
You can explore undergraduate courses in Product Design

You might find courses in:

- Aircraft Design
- Airframe Design and Flight Dynamics
- Architecture
- Landscape and Garden Design
- Product Design
- Product Design and Technology
- Engineering
- Digital Environment Building
- Design and Development Engineering

7 | Work Pathways

Supported internships
with an education, health and care plan

Supported internships | National Careers Service

Watch Saul's story

You might read about:

• Access to Work Funding (if you have a disability or health condition)

• Preparing for Adulthood

• Talking Futures (A parents' toolkit for career conversations)

School leaver schemes

School leaver schemes | National Careers Service

You might read about:

• How to fill in an application form

• How to write a CV

• Interview help

• Progressing your career (Careers Advice from NCS)

7| **University League Tables**

See at a glance the university ranking for Architecture and Production Engineering

Architecture Rankings (thecompleteuniversityguide.co.uk)

Production Engineering

Filter by:

• Overall score
• Entry standards
• Student satisfaction
• Research quality
• Research intensity
• Graduate prospects

Discover Uni

Have you ever considered if higher education is right for you?

1.Go to https://discoveruni.gov.uk/

2. Search for a course or subject
(You should get a page of search results, you can filter these by university or college, whether you want to study full or part time or perhaps you want to see that courses are near you)

Once you have had a look at a few different courses and subjects now it is time to compare some side by side

3. Check out this video which shows you how to use our comparison tool https://youtu.be/dBFzCQgTp8I - Pick 5 courses and add these as a saved course and then you can compare

4. Once you have your chosen five side by side, try to answer the following questions:

a. What kinds of qualifications do students on the course have when they start the course?

b. How many have a placement year?

c. How many courses let you study abroad?

d. Which has the highest student satisfaction rating? How do you know this?

e. What kinds of job do graduates from this course go on to?

f. Which course has the highest salary after three years? (higher/lower than national average)

g. Choose your favourite course and explain why you chose this course over the others?

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4. Once you have your chosen five side by side, try to answer the following questions:
Is the data I am looking at for a course or a subject?
   a. What year, or years, does the data relate to?
   b. How many students or graduates is this data based on?
   c. Does the data represent all the students on the course or subject area?
   d. Does the data include people like me?
   e. What factors might impact the data?

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1 | In 10 years time...

Job in 10 years time (related to Product Design):

_____

What GCSEs helped you get this job:

_____ _____ _____ _____ _____ _____

What KS5 Pathways choice did you make and what did you study:

Apprenticeship   T level   A Level   other L3 equivalent

_____

Post 18 pathways choices did you make: explain:

Study & Work   Study   Work

_____

Essential skills used in the job:

_____

Progression route:

_____

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2 |

My local options...

Subject chosen (related to Product Design):
_____

Local college options:
_____

Local apprenticeships options:
_____

Other options:
_____

The pros and cons of these options for me:

Pros:

Cons:

_____   _____

Consider how these will apply and explain:

Cost _____

Travel _____

Convenience _____

Aspirations _____

Personal circumstances _____

Other _____

Final choice – justify:
_____

Next steps:
_____

3 | Prepare a 3 - 5 minute talk to share with a small group on any role that interests you related to Product Design

What's the role?

Where has the interest come from?

What do you need to do to become one?

Where can you go to study and what level of study?

Where do you need to go to carry out the role?

What's the chances of getting this role?

Who do you look up to in this role?

What might a typical day look like?

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4 |

My career path….

Essential Skills

Here are three key skills needed for a career that uses

Product Design

	Video	Skills Builder Resource KS3	Skills Builder Resource KS4	Skills Builder Resource Post 16
The use of imagination and the generation of new ideas	Watch here	Short Lesson Creativity Step 6-8	Short Lesson Creativity Step 8-10	Short Lesson Creativity Step 10-12
The ability to find a solution to a situation or challenge	Watch here	Short Lesson Problem Solving Step 6-8	Short Lesson Problem Solving Step 8-10	Short Lesson Problem Solving Step 10-12
The oral transmission of information or ideas	Watch here	Short Lesson Speaking Step 6-8	Short Lesson Speaking Step 8-10	Short Lesson Speaking Step 10-12

8 |

Skills Builder PARTNERSHIP

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CREATIVITY

	Creativity	Tick which apply
Step 6	I use creativity in the context of work	
Step 7	I use creativity in the context of my wider life	
Step 8	I develop ideas by using mind mapping	
Step 9	I develop ideas by asking myself questions	
Step 10	I develop ideas by considering different perspectives	
Step 11	I innovate effectively when working in a group	
Step 12	I innovate effectively by seeking out varied experiences and stimuli	

My Strength (s)	My area (s) of Development

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8 |

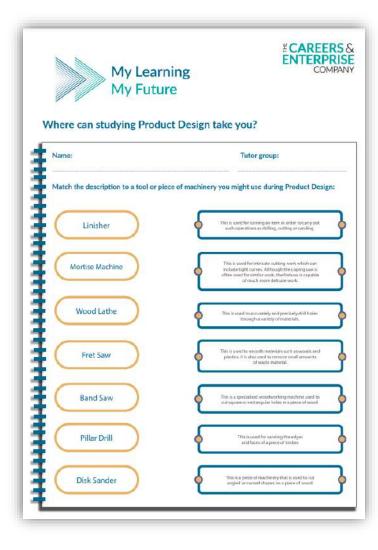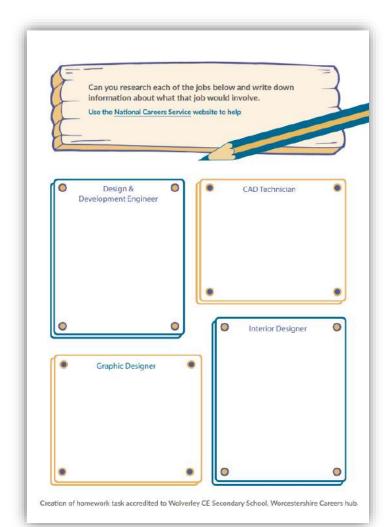|	Problem Solving	Tick which apply
Step 6	I explore complex problems by identifying when there are no simple technical solutions	
Step 7	I explore complex problems by building my understanding through research	
Step 8	I explore complex problems by analysing the causes and effects	
Step 9	I create solutions for complex problems by generating a range of options	
Step 10	I create solutions for complex problems by evaluating the positive and negative effects of a range of options	
Step 11	I analyse complex problems by logical reasoning	
Step 12	I analyse complex problems by creating and testing hypotheses	

My Strength (s)	My area (s) of Development

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	Speaking	Tick which apply
Step 6	I speak effectively by using appropriate tone, expression and gesture	
Step 7	I speak engagingly by using facts and examples to support my points	
Step 8	I speak engagingly by using visual aids to support my points	
Step 9	I speak engagingly by using tone, expression and gesture to engage listeners	
Step 10	I speak adaptively by changing my language, tone and expression depending on the response of listeners	
Step 11	I speak adaptively by planning for different possible responses of listeners	
Step 12	I speak adaptively by changing my content depending on the response of listeners	

My Strength (s)	My area (s) of Development

Homework

Where can studying Product Design take you?

Name: _____   Tutor group: _____

Match the description to a tool or piece of machinery you might use during Product Design:

- Linisher
- Mortise Machine
- Wood Lathe
- Fret Saw
- Band Saw
- Pillar Drill
- Disk Sander

Can you research each of the jobs below and write down information about what that job would involve.

Use the National Careers Service website to help

- Design & Development Engineer
- CAD Technician
- Graphic Designer
- Interior Designer

Creation of homework task accredited to Wolverley CE Secondary School, Worcestershire Careers hub.

Explore careers

Find out what a job involves and if it's right for you.

Use the National Careers Service Explore careers tool to research for this homework

Explore here