

Year 7 Design & Technology and Art Remote Learning Programme

The Oak National Academy resources will introduce you to the fundamental knowledge and skills that underpin Design & Technology, giving you a strong foundation for future learning in the subject.

Working through these resources will help you build your understanding of materials, processes, designing, making and evaluating, preparing you to apply this knowledge confidently in more challenging Design & Technology projects.

Half Term	Task	Link(s)
Half Term 1 August - October	Principles of materials and manufacturing. Lesson 1 – Materials in Design Lesson 2 - Wasting manufacturing processes The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Materials in design • Wasting manufacturing processes
Half Term 2 October - December	Principles of materials and manufacturing. Lesson 3 – Material selection Lesson 4 – Fabricating manufacturing processes The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Material selection • Fabricating
Half term 3 January-February	Principles of materials and manufacturing. Lesson 5 – Material sustainability The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Material sustainability
Half term 4 February-April	Principles of materials and manufacturing. Lesson 6 – Deforming manufacturing processes The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Deforming

Half term 5 April- May	Principles of materials and manufacturing. Lesson 7 – Minimising material waste The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Minimising material waste
Half term 6 May- July	Principles of materials and manufacturing. Lesson 8 – Reforming manufacturing processes The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Principles of materials and manufacturing • Reforming manufacturing processes

Design & Technology Communication Skills - [Communication Skills](#)

Being able to communicate your ideas clearly and effectively is one of the most important skills you will develop in Design & Technology. Designers and engineers need to be able to explain their ideas to others through sketching, annotation, technical drawings, modelling, CAD and presentation.

The Oak National Academy resources link above will help you develop and practise these essential communication skills. It is important that you master these techniques, as strong communication allows others to understand exactly what you are designing and how it will work. These skills will form an important foundation for your future D&T projects, GCSE coursework and examinations, as well as for careers in design, engineering and many other creative and technical industries.

Art & Design Introduction - [Art & Design](#)

The Oak National Academy Art resource link above will help you explore your creativity, try new techniques and discover different artists and styles. Use them to build your skills, experiment with new ideas and become more confident in your own artwork.

Food & Nutrition - [Cooking](#)

The Oak National Academy Cooking & Nutrition resource link above will help you develop your cooking skills, explore different foods and understand how food can affect our health and wellbeing. Use these resources to build your confidence in the kitchen, learn new techniques and develop a strong foundation for future learning in Food & Nutrition.

Year 8 Design & Technology and Art Remote Learning Programme

The Oak National Academy resources will introduce you to the fundamental knowledge and skills that underpin Design & Technology, giving you a strong foundation for future learning in the subject.

Working through these resources will help you build your understanding of materials, processes, designing, making and evaluating, preparing you to apply this knowledge confidently in more challenging Design & Technology projects.

Half Term	Task	Link(s)
Half Term 1 August - October	Material testing. Lesson 1 – Physical properties of materials Lesson 2 – Testing physical properties of materials The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	<u>Material testing</u> • Physical properties • Testing physical properties
Half Term 2 October - December	Material testing. Lesson 3 – Working properties of materials Lesson 4 – Testing working properties of materials The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	<u>Material testing</u> • Working properties of materials • Testing working properties
Half term 3 January - February	Material testing. Lesson 5 – Metal properties, sources and stock forms The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	<u>Material testing</u> • Metal properties
Half term 4 February - April	Material testing. Lesson 6 – The environmental impact of materials The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	<u>Material testing</u> • The environmental impact

Half term 5 April - May	Materials testing. Lesson 7 – Selecting materials for manufacture The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Material testing • Selecting materials
Half term 6 May - July	Materials testing. Lesson 8 – Modern material properties The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	Material testing • Modern materials

Art & Design

[Mark-making using different tools](#)

[Mark-making techniques](#)

The Oak National Academy Art resource links below will help you explore your creativity, try new techniques and discover different artists and styles. Use them to build your skills, experiment with new ideas and become more confident in your own artwork.

Food & Nutrition

[Macronutrients](#)

[Micronutrients](#)

The Oak National Academy Food & Nutrition resource links above will help you develop your cooking skills, explore different foods and understand how food can affect our health and wellbeing. Use these resources to build your confidence in the kitchen, learn new techniques and develop a strong foundation for future learning in Food & Nutrition.

Year 9 Design & Technology and Art Remote Learning Programme

The Oak National Academy resources will introduce you to the fundamental knowledge and skills that underpin Design & Technology, giving you a strong foundation for future learning in the subject.

Working through these resources will help you build your understanding of materials, processes, designing, making and evaluating, preparing you to apply this knowledge confidently in more challenging Design & Technology projects.

Half Term	Task	Link(s)
Half Term 1 August – October	The circular economy Lesson 1 – Linear versus circular economy Lesson 2 – Life cycle assessment The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Linear vs circular • Life cycle
Half term 2 October - December	The circular economy Lesson 3 – Design Lesson 4 – Manufacture and materials processing The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Design • Manufacturing
Half term 3 January - February	The circular economy Lesson 5 – Distribution The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Distribution
Half Term 4 February - April	The circular economy Lesson 6 – Product in use The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Product in use

Half Term 5 April - May	The circular economy Lesson 7 – Repair, maintenance and recycling The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Repair
Half Term 6 May - July	The circular economy Lesson 8 – Redesign and rethink The links will take you to a unit of lessons on the Oak National Academy website. Please follow the instructions provided and work through the introduction, the short starter quiz, the lesson video containing the new learning, and finally the exit quiz.	The circular economy • Redesign and rethink

Art & Design

[Principles of Art](#)

The Oak National Academy Art resource link above will help you explore your creativity, try new techniques and discover different artists and styles. Use them to build your skills, experiment with new ideas and become more confident in your own artwork.

Food & Nutrition

[Nutrition needs](#)

[Health](#)

[One planet](#)

The Oak National Academy Food & Nutrition resource links above will help you develop your cooking skills, explore different foods and understand how food can affect our health and wellbeing. Use these resources to build your confidence in the kitchen, learn new techniques and develop a strong foundation for future learning in Food & Nutrition.

Year 10 GCSE Design & Technology, Art & Design and Food & Nutrition Remote Learning Programme

The Oak National Academy and the BBC Bitesize resources links below are here to help you build your knowledge, practise your skills and feel more confident in your GCSE subjects. Whether you are studying Design & Technology, Art & Design or Food & Nutrition, these resources give you the chance to revisit topics, explore new ideas and strengthen your understanding outside of lessons.

As well as using these resources, you should continue working on your current subject project, using the Oak National Academy activities as additional support to develop your knowledge and skills alongside your classroom work.

Use them to support your classwork, revise key knowledge and practise at your own pace. The more you revisit and practise, the more confident and prepared you will become for Year 11 and your GCSE exams.

AQA Design & Technology

- [Iterative design - Polymers and Timbers](#)
- [BBC Bitesize - AQA D&T](#)

AQA Art & Design

- [Art Foundation](#)
- [Art Foundation - Elements and principles](#)

WJEC Food & Nutrition

- WJEC GCSE Food & Nutrition – Year 10 Independent Learning - Build your subject knowledge
- Start by using the WJEC Food & Nutrition knowledge organisers to revisit and strengthen the key knowledge you need for GCSE follow the link:
- [WJEC Food & Nutrition](#)
- Focus on the following key areas:

Nutrition and healthy eating, Food commodities, Food science, Food provenance, Food preparation and cooking, Food safety, Sustainability, The functional properties of ingredients

Year 11 GCSE Design & Technology, Art & Design and Food & Nutrition Remote Learning Programme

The Oak National Academy resources below are here to help you revise key knowledge, strengthen your understanding and prepare confidently for your GCSEs. Use your time wisely by revisiting areas where you need to improve, practising important skills and making regular progress with your revision.

Alongside your revision, it is essential that you use your time effectively to complete any outstanding coursework or project work. Make sure you know what you still need to complete, set yourself clear targets and use every opportunity to improve the quality of your work before the final deadlines.

Plan your time, stay focused and make every session count.

AQA Design & Technology

- [Oak academy D&T Key revision resources](#)
- [BBC Bitesize - AQA D&T revision resources](#)

AQA Art & Design

- [Oak Academy Art & Design revision support resources](#)
- [BBC Bitesize - AQA Art & Design support resources](#)

WJEC Food & Nutrition

- [WJEC Food & Nutrition](#)