

# GWAITH CARTREF HOMEWORK

Please choose a homework to complete and hand in to your design and technology teacher. Make sure your name, the task and points available are clearly labelled. Challenge yourself and try your best! All points collected will go towards department rewards and the Eisteddfod. Pob lwc!

List and explain 5 different types of materials you may use in DT.

\_\_\_\_\_

Draw a diagram for any item of equipment in the workshop including any health and safety regulations

\_\_\_\_\_

Go and explore and draw a picture while amongst trees/ woodland.

\_\_\_\_\_

Watch The Repair Shop on BBC 1 player and identify and list the tools and skills used.

**1 POINT**

Define the term sustainability and explain the relevance of it in today's world.

\_\_\_\_\_

Investigate the term ACCESS FM and create a poster which explains the key terms

\_\_\_\_\_

Create a comic strip on the 'Dangers of the DT workshop'

**2 POINTS**

Create a prototype of phone holder using card

\_\_\_\_\_

Research native Welsh trees and explain the some products that could be made with them.

\_\_\_\_\_

Create a game using recycled material from around the home. Ask for parental permission first!

**3 POINTS**

**BLWYDDYN 7**

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# GWAITH CARTREF HOMEWORK

Create a logo for the Design  
Technology department

\_\_\_\_\_

Draw a diagram for any item  
of equipment in the  
workshop including any  
health and safety regulations

\_\_\_\_\_

Create a poster of the design  
process

\_\_\_\_\_

Research different types of  
wood and present your  
findings

**1 POINT**

Define what the term  
sustainability means and how  
we can / need to use it in  
product design

\_\_\_\_\_

Investigate the term ACCESS  
FM and create a poster which  
explains the key terms

\_\_\_\_\_

Create a timeline for the  
iPhone and include design  
ideals for the future 'iPhone'

**2 POINTS**

Complete a product analysis  
using ACCESS FM for a  
product of your choice

\_\_\_\_\_

Create a fact file of a famous  
designer of your choice  
including a timeline and  
examples of their products.  
Design a product in that style

\_\_\_\_\_

Create a piece of jewellery to  
promote Cymru. Include a  
design sheet and any  
prototypes you create

**3 POINTS**

**BLWYDDYN 8**

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Create a poster describing the difference in properties of thermoplastic and thermosetting plastic

\_\_\_\_\_

Create a poster outlining the top tips for being sustainable

\_\_\_\_\_

Write a paragraph explaining how designers can make sustainable decisions

\_\_\_\_\_

Research and list different types of plastics. Are they thermosetting plastic or thermoplastics?

**1 POINT**

Write a short paragraph that describes the origin of crude oil, used in the production of polymers.

\_\_\_\_\_

Write a short paragraph outlining the differences between thermosetting and thermoplastic polymers.

\_\_\_\_\_

Create a mood board of plastic products which clearly shows the difference between thermo and thermosetting plastics

**2 POINTS**

Create a design brief of your choice and then create a design specification for a product that fits your brief. Make sure you have at least 6 different points and can justify each of them.

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Make your own product using recycled materials from around your house. Ask for parental permission first!

\_\_\_\_\_

Find and analyse a product in your house that it made using a polymer. Use the ACCESS FM questioning to help you.

**3 POINTS**

**BLWYDDYN 9**