

Deyes High School Remote Learning



DEYES
HIGH
SCHOOL
LYDIATE
LEARNING TRUST

Engage, Enable and Empower

Year 7
D&T
Timber

Work for individual students not attending school

Half Term 3: January to February

Pupils who are absent should select the activity that they are up to. Click on the link in the activity box below. This will take you to Office 365 where the work is stored. In the lesson it will tell the pupil if they need to submit the work to their teacher.


Lessons

Date (week commencing)	Lessons	Focus/Topic/Theme	Hyper link to Activity
4/1/2021	1	Material selection	Year 7 Timber booklet Y7 Timber Power Point
11/01/2021	2	Timber Types	
18/1/2021	3	Specification	
25/01/2021	4	Ideas	
1/2/2021	5	Final Design	
8/2/2021	6	Tolerance	
15/2/2021	7	Types of finish	

Year 7 - Cultural Capital
Timber Knowledge Organiser - Calendar Project

Lesson 1
Know your trees

- Natural wood is categorised as either hardwood or softwood
- Most hardwood and softwood trees have characteristics that help us recognise them
- Both types can be grown and harvested responsibly in managed forests
- This makes wood a sustainable and biodegradable resource



Softwood
Softwood comes from coniferous trees

- Most coniferous trees have needles, are evergreen, and they keep their needles all year round
- Softwood trees grow faster than hardwood trees making it relatively cheap and readily available

Hardwood
Hardwood comes from deciduous trees

- Deciduous trees drop their leaves in the autumn and new leaves grow in spring
- Hardwood is slower growing and therefore more expensive
- Good aesthetic and physical properties
- It has a closer grain, making it more hardwearing

Tree	Ash	Beech	Larch	Malebrary	Oak	Pine	Spruce
Softwood	*	*	*	*	*	*	*
Hardwood	*	*	*	*	*	*	*


Lesson 2
Manufactured boards (aka Engineered Wood or Composite Boards) comprise a range of sheet materials produced by pressing and bonding together wood particles, fibres or veneers to achieve particular characteristics - and to create a use for what would otherwise be discarded as waste.

Manufactured boards

- These can be made from sawmill scraps, recycled wood, low grade timbers and even sawdust
- Wood pieces are bound together with adhesives to make man-made / manufactured board
- Manufactured board can be susceptible to moisture
- Boards are rigid, stable and supplied in large sheets

Common boards

- Medium density fibreboard or MDF**
Very dense board which makes it tough
Its smooth surface makes it suitable for veneers and finishes
- Chipboard or particle board**
Good compressive strength
Edges chip easily
- Plywood**
Made up of alternative rotated layers of glued wood veneers
Available in various forms including marine ply for greater water resistance



Who to contact

You can email **your class teacher** if you have any questions regarding the activities set.

d.jones@deyeshigh.co.uk
s.norbury@deyeshigh.co.uk
e.fearon@deyeshigh.co.uk



Year 7 - Cultural Capital
Timber Knowledge Organiser - Calendar Project


Local Context - Possible Career Pathways!

Health and Life Science - 10,000 people employed
e.g. Mersey Forrest Project FFSC Project, Bold Forrest Park Project, Mersey Gateway Forrest Park Project, e.g. Developing Green Infrastructure in Liverpool

Visitor Economy - 5th most popular city for overseas visitors
e.g. Tree Surgeon - Parks and Gardens
e.g. Designers for local initiatives e.g. Lamb Banana

Local Context - Professional services 20,000 jobs over next 20 years
e.g. Joinery Apprenticeship
e.g. Designing and Design Industry
e.g. Manufacturing Industry

Cultural Capital - Human Creativity
Innovative Design,
Previous designs and design possibilities



Key Words:
Hardwood - The wood from a broadleaved tree
Softwood - The wood from a conifer
Manufactured Board - Human Made Board, comes in large flat sheets
Deciduous - Drops Leaves in Winter
Coniferous - Keeps its needle like leaves all year round
Sustainable - Can be kept going indefinitely
Renewable - Can be replanted; re grown; naturally replenished
Biodegradable - Will decompose (Break down into natural state)

Further Reading:

- DT Online - Manufactured Boards
- TechnologyStudent.com - Natural Woods
- Mr-DT.com - Tools for wood