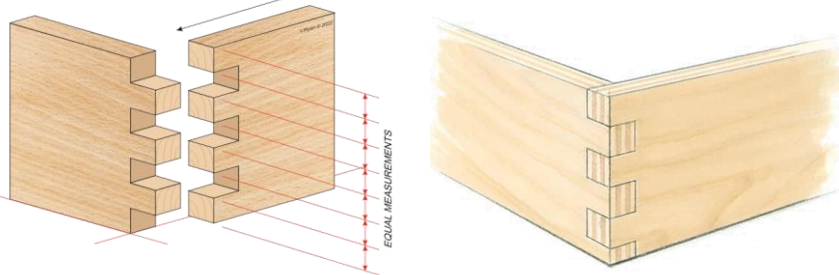


Year 9- Project

What is a finger joint?

A **finger joint** is a type of wood joint where the ends of two pieces of wood are cut into interlocking "fingers." These fingers fit together like puzzle pieces, creating a strong and durable connection. It's commonly used to join shorter pieces of wood together to make longer ones, such as in furniture or cabinetry.



What is design fixation?

Design fixation is a problem that all designers face at some point in their careers.

It is when a designer finds it difficult, to produce a range of innovative solutions, to a design problem. It sometimes takes the form, of a designer producing a number of solutions that are similar, lacking innovation and creativity.



How do I develop a design idea?

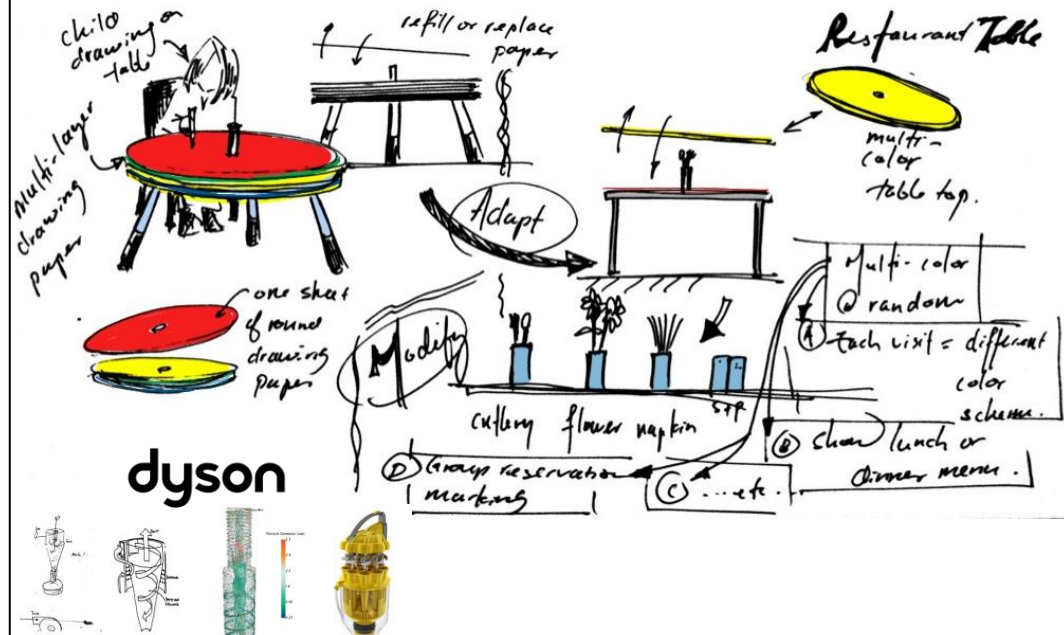
S.C.A.M.P.E.R.

SCAMPER is a useful list of words to help us think differently about a problem, idea, concept or issue.

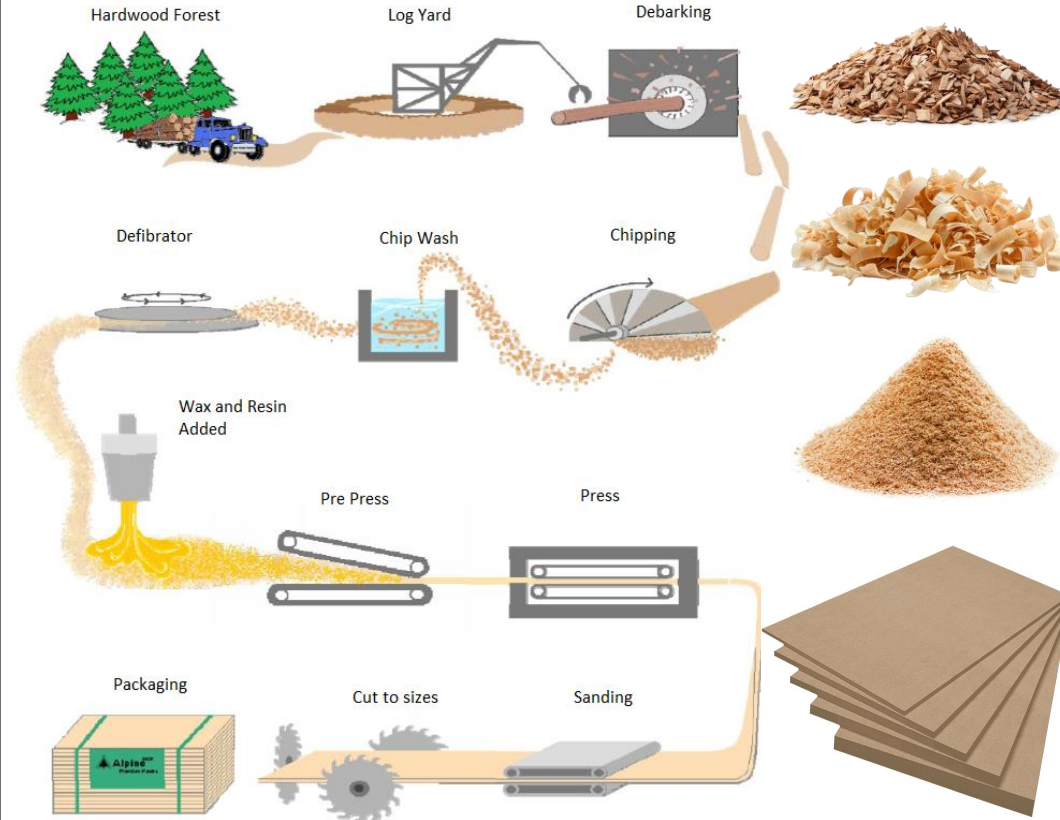
The SCAMPER model

Seven perspectives to provoke creative solutions to challenging problems.

S	C	A	M	P	E	R
Substitute	Combine	Adapt	Modify	Put to another use	Eliminate	Reverse
Replace a part, material, or process with something else.	Join elements, ideas, or functions together in new ways - or find a new element you can merge with.	Modify something to better suit a new purpose, person or context.	Enlarge, reduce, change the shape, or alter attributes. Can a small change have a big effect?	Rather than changing the thing itself, consider changing the context it exists in.	Remove elements, simplify, or pare down to essentials. Is less more?	Flip the script, re-order your priorities, invert cause and effect, and turn it all upside-down.



What is Medium Density Fibreboard (MDF)?



Why is literacy important in Design and Technology?

Literacy is important in **Design and Technology** because it helps you effectively understand, communicate, and solve problems related to the design and creation of products or systems.

Here's why literacy plays a key role:

Reading skills are essential for understanding design briefs, manuals, safety guidelines, and technical specifications.

Writing skills help you create reports, presentations, and proposals that clearly communicate their ideas to others

Vocabulary related to design and technology is specific (e.g., materials, processes, functions), and understanding this terminology helps you to discuss your ideas more precisely.



KEY WORDS

Numeracy	the ability to understand and work with numbers.
Sustainability	avoidance of the depletion of natural resources
Environment	the natural world, as a whole or in a particular geographical area, especially as affected by human activity.
Reduce	make smaller or less in amount
Reuse	use again or more than once.
Recycle	convert waste into reusable material.
Repair	restore something damaged, faulty, or worn to a good condition.
Refuse	indicate or show that one is not willing to do something.
Rethink	The manufacturing of a single product or item
Accuracy	A resin dissolved in a liquid for applying on wood, metal, or other materials to form a hard, clear, shiny surface when dry.