

Preston Primary School Knowledge Organiser






Topic: DT structures

Term: Spring 2










Year: Unit 2 years 1 & 2

Duration: 5 weeks

The Powerful Knowledge we will take away from this Learning Enquiry (what will be learning):

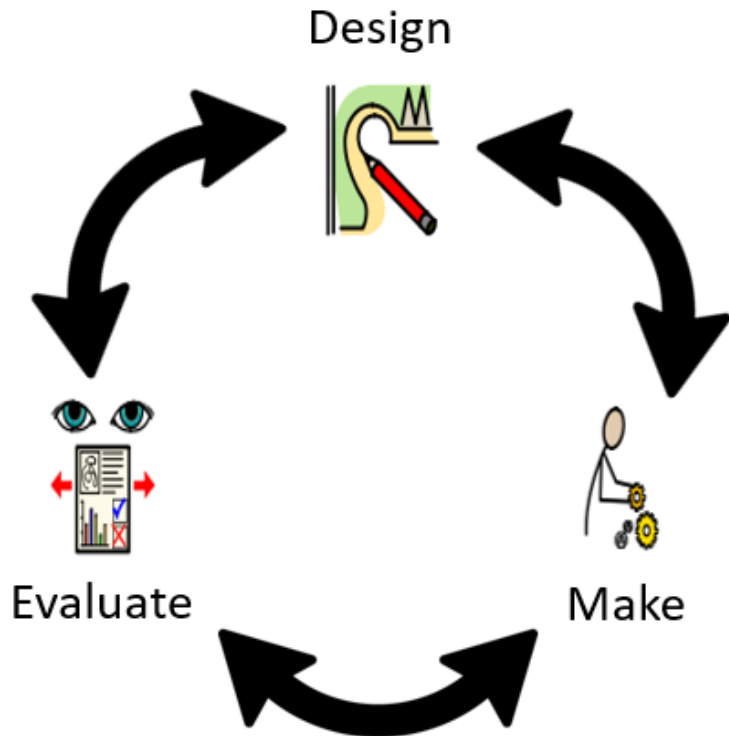
	Think about what they already know about structures. Look at design criteria for a structure.
 Make Evaluate	Make different structures from different materials – paper, wood and bricks - learning how to make each type stronger. Think about the benefits and drawbacks of each type of material – what would they be useful for and what wouldn't they be useful for?
 Design	Designing their structure in a group, showing the 4 Cs (Creativity, Communication, Critical Thinking and Collaboration).
 Make	Work together to make a structure, ensuring that it meets the design criteria.
 Evaluate	Think about what they did well, and what they would improve next time.

Our Key Vocabulary:

Word	Image	Meaning
Design criteria		The specific and concise requirements that a product must meet in order to be successful. This is used to evaluate the final product.
evaluate	 Evaluate	to form an opinion of the amount, value or quality of something after thinking about it carefully
product		a thing that is grown, produced or created, usually for sale
design	 Design	the art or process of deciding how something will look, work, etc. by drawing plans, making computer models, etc.
reinforce		Making something stronger.
Stable		Not likely to give way or turn over.
Structure		A building or other object constructed from several parts
Join		Connect two items together
Make		To put parts together or combine to create something new.

The Design, Make and Evaluate Model of Design and Technology:

We will use the Design, Make and Evaluate continuous cycle during every Design and Technology lesson. The cycle shows how we will be constantly evaluating during the design and make stages to improve our products or dishes along our invention journey. As well as evaluating our final product or dish at the end of our long enquiry to conclude what went well, what we would improve next time and what challenges we have faced along the way.



What I already know: In Puffins and Penguins: I have explored and investigated a range of simple and large-scale constructions e.g. cardboard boxes. I have constructed structures with a purpose and can adapt my work where necessary. I have learnt to use a variety of tools safely.

Images:

