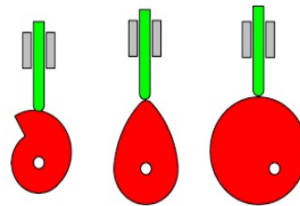


Lesson 6

IDEAs LO: To consider properties of materials

Cam creations!



Who taught you in this session?	Teacher	TA	1:1	HLTA
	Independent	Supported		
Child	L.O. To consider properties of materials <i>CORNERSTONES Programme of study:</i> Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. <i>CORNERSTONES Essential skills:</i> Choose the best material for a task showing an understanding of their working characteristics. Select the most appropriate materials and frameworks for different structures, explaining what makes them strong.			Teacher
	I know a range of vocabulary used to describe materials			
	I can study the samples and make careful observations			
	I understand I must consider how I could use the materials in my design.			
Lesson 6				

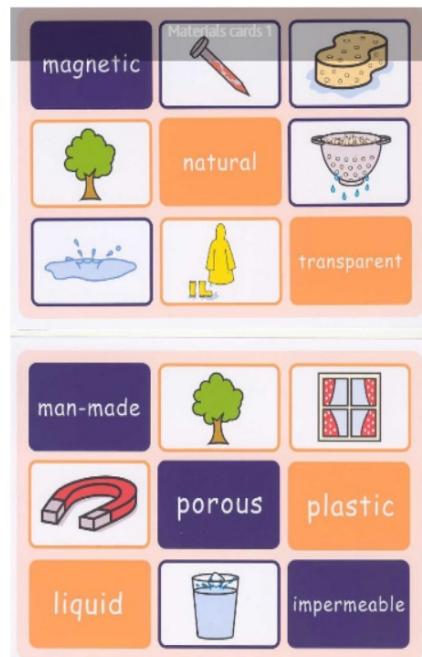
PROGRESSION OBJECTIVES

Select the most appropriate materials and frameworks for different structures, explaining what makes them strong. Strength can be added to a framework by using multiple layers. For example, corrugated cardboard can be placed with corrugations running alternately vertically and horizontally. Triangular shapes can be used instead of square shapes because they are more rigid. Frameworks can be further strengthened by adding an outer cover.

Choose the best materials for a task, showing an understanding of their working characteristics. It is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability.

Match the material vocabulary with the correct picture with a partner and discuss meanings. Take a photo of matching!

Annotate the picture with 3 definitions!



Look carefully at the samples of materials
Consider which materials are best to make a working Cam
What do you notice?
Complete the grid:

Material	Generally used for	Suitable for this because	Positive features	Negative features	How I could use it in my CAM toy design
Card					
Wood					
Paper					
Corrugated card					
Laminated plastic					

Play the 'Convince me' game!

With your eyes closed, choose one of the materials at random and, using as many technical words as you can, convince your partner that the material you've chosen is the best choice! Your partner needs to jot down the words you've used on a post it note! Be as persuasive as you can! Did you convince them?

