

Knowledge Organiser

Year: 1 Subject: Design & Technology Unit: Playgrounds

Overview

Children will be learning about playground equipment and the materials they are made from. They will make models focussing on strength and sturdiness. The children will design and make a piece of playground equipment.

equipment.			
What should I already know?	Vocabulary:		
Design	Key		
Can identify the key features of an existing product and generate ideas to make their own	construction	to build or make something	
productCan make a plan of a picture with a mechanism	design	a drawing to show what something looks like	
using pictures and labels and list the materials		J	
they will need Make	evaluate	to make a judgement about something	
 Can cut out using scissors Can join components to make a wheel mechanism and follow a design 	demonstrate	to show	
Working with tools	join	to link two items together	
Join two pieces of paper/card together with glue and select appropriate and tools and use them safely	identify	to find	
Evaluate	equipment	tools you need to construct	
Can identify what has gone well with their product and how they could improve their work		something	
 Say what they like and feel about their own and others' work 	frame	a rigid structure that surrounds something	
Technical Knowledge			
 Know that construction means to make something (EYFS) 	spring	an elastic device that can be pressed or pulled but returns to	
 Know what a pivot and lever are and how they are used to make a mechanism work. 		its original shape when released	
What will I know by the end of the unit?			

Design	supplementary	
 Can identify the key features of an existing product 		
 Can make a plan of an existing product and label it Can generate ideas for different ways of strengthening models to make them sturdy 	balance	put (something) in a steady position so that it does not fall
 Can say whether their models are strong or not. Can make a labelled plan of their design and list the tools and materials they need. 	spin	turn or cause to turn or whirl round quickly
Make	central point	from the centre of something
 Can cut out using scissors Can follow a design to make a piece of playground equipment 		,
 Can join materials together to make a sturdy structure Working with tools 	smooth surface	having an even and regular surface; free lumps, or indentation
Join two pieces of paper/card together with glue		
and tapeCan select appropriate and tools and use them	sturdy	strongly and solidly built
safely		a basa which is wide to improve
Evaluate	wide-base	a base which is wide to improve stability
 Can identify what has gone well with their product. Can say how they could improve their work Say what they like and feel about their own work Can say what they like about others' work and give them positive feedback (I likeabout your product) 		Stability
Technical Knowledge		
Know that to make a structure more stable it needs reinforcing e.g., more tape to hold it together		