Spring Partnership Trust – Knowledge Organiser						
DT Focus Functioning		Products		Year 5		
Marble Runs Design Brief Create a free standing marble run including 2 vertical towers, 1 bridge that joins the 2 towers, joins that are strong, tidy and allow the marble to run smoothly						
What? Key Skills						
Design			Make		Evaluate	
 To design, make and evaluate products that have a clear purpose or intended user. To make products, adapting and refining your design as your work progresses. To understand what materials and structures are strongest when free standing To explain which aspects of building structures work well and what doesn't work well and why. To develop an understanding of how marble runs work To explore and understand different structures and when it is best to use them (bridges, bends and speed) 			 requirement the tools req project. To work toge a marble run design brief. given a choic and the free of the techni have learnt To test their of 	ether to produce that meets the Children to be te of materials dom to use any ques that they own and each e runs to see if	 To explore and evaluate a range of existing products, identifying likes and dislikes and suggesting improvements. 	
Key Vocabulary			Key Knowledge			
Design	a plan to show the lo workings of a produ			Joining A small, thin half tub catches the		
Make	Makecreate something by putting parts togetherEvaluateto judge the quality of a product and how well it meets the design brief		A small, thin hay tub catches the marble and directs it down the bridge.			
Evaluate			shaped and small	The ends of the cardboard tube are shaped and small cuts are made to		
Strengthen	to make something purpose	stronger for its		help the tube to fan out and accurately fit the other tube. Joining		
Bridge						
Free						

standing

Prototype

Joining

another structure.

connect things together

developed

an original or first model of something

from which other forms are copied or

Bridges

