Our Lady and St Edward's Knowledge Organiser	Year 1 - Design and technology	Autumn	Construction	
Outcome: Design a bridge using the Swiss Bridg based on strength.	e in Birkenhead Park	as a stimulus. Use a r	ange of materials and compare suitability	
Structures		Key Vocabulary		
Structures are things that are built for a purpose. Structures can be large e.g. buildings or bridges or small e.g. chairs or tables Bridges need to support the weight of the object using them, so must be well-designed, strong, rigid and stable. Health and Safety - All children should be supervised when using equipment.		 -Construction: The building of houses, factories, roads and bridgesBridge: A structure carrying a road, path or railway over an obstacle such as a river. -Structure: A building or other object built from several parts. -Rigid: Unable to bend, stretch or twist easily. Not flexible. -Flexible: Can bend easily without breaking. -Design: A plan or drawing produced to show the look and function of a building or other object before it is made. -Make: To form something by putting parts together. -Evaluate: To decide if your design or structure meets its purpose. -Architect: A person who designs buildings and structures and supervises their construction. -Function: Use or purpose of the design or structure. -Purpose: The reason for which something is created. 		
Key Knowledge		Resources to supp	port leaning	
Name: Swiss Bridge Location: Birkenhead Park, Birkenhead Dimensions: 7.01 m (23 ft) Built: 1843-7, Victorian Era Designer Architect: Lewis Hornblower Key Info: The Swiss Bridge is a Grade II listed footbrid lake. The bridge has been renewed several times sinc constructed. It is the only covered bridge of traditional the UK.	e it was first	https://historicengland mages/swissbridge-b https://assets.publish /uploads/attachment m - Design and te Books: • Cross a Brid	ing.service.gov.uk/government/uploads/system data/file/239041/PRIMARY_national_curricul	
What I should already know:	What I should already know:		By the end of this unit, I will know:	
 Our school is in a town called Birkenhead. There is a bridge in Birkenhead Park. There are bridges near our school in the docks. 		•	lge? ge needed in certain places? es need to be strong?	