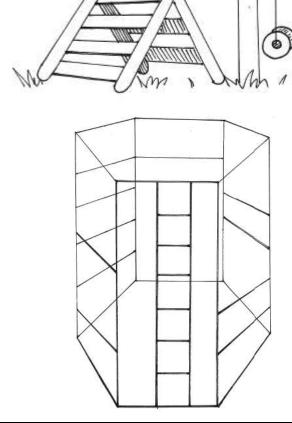
KS1: Prototypes- Playground Equipment

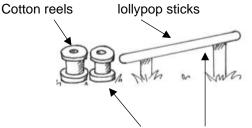
Key Vocabulary	
Model	A representation of a real object.
User	The person using the end product.
Aesthetics	What something looks like
Purpose	The reason why something is made and how this changes depending on who it is created for
Strong	A structure that can support itself
Safe	Something that is not likely to cause injury and doesn't involve danger or risk

The Project	
Introduction	This project is designed to introduce you to prototyping, a type of design where you make small models of larger things. In this case what you would find in the playground
Purpose for Project	To design a new piece of playground equipment that will help a child in living a healthy lifestyle by exercising different parts of their body.

Research Some designers incorporate art into their playground equipment. Monstrum Playgrounds Designers Play sculptures by Pieter Kortekaas What are the **purposes** of most playground designs? Key Research Questions How do these pieces of equipment exercise the body effectively? How do they make sure that their equipment are safe to use? Why would children want to play on these pieces of equipment? Think about interesting design and aesthetics.



Design In your design you will need to draw what you are proposing to make and label what muscles or parts of the body your design is exercising. Use your research of play ground equipment to help you. Label what material you will be using for each of your designs: Art Straws_ Children will exercise their arms by pulling themselves up the bars.



Labelling

Children will be using their core muscles (chest) and leg muscles to help with balance.

Make Pipe cleaners can be joined together by twisting one pipe cleaner under another. Using pipe cleaners Pipe cleaners are useful in creating intricate patterns, especially for climbing frames and swings Lollypop sticks are a strong and stable, useful in creating ladders and climbing frames. To create a ladder: **Using Lollypop Sticks** 1. Use two lollypop sticks to create 111 111 your vertical frame. 2. Cut a lollypop stick in half and use PVA glue to stick them together to make rungs.

Evaluate

Use your own opinion to decide if you like your project and why

Use some the design criteria, based on your research and designs, to think how successful you have been.

Begin considering what you could have changed based on your on design criteria

You will learn how to