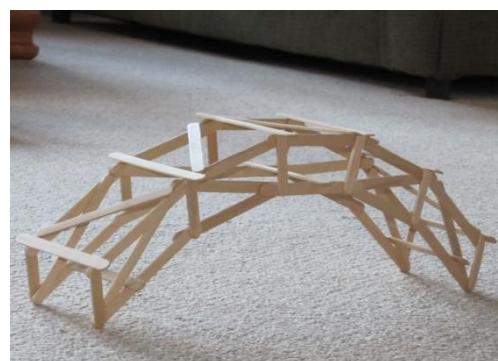


Year 5 Resistant Materials: Bridges Knowledge Organiser

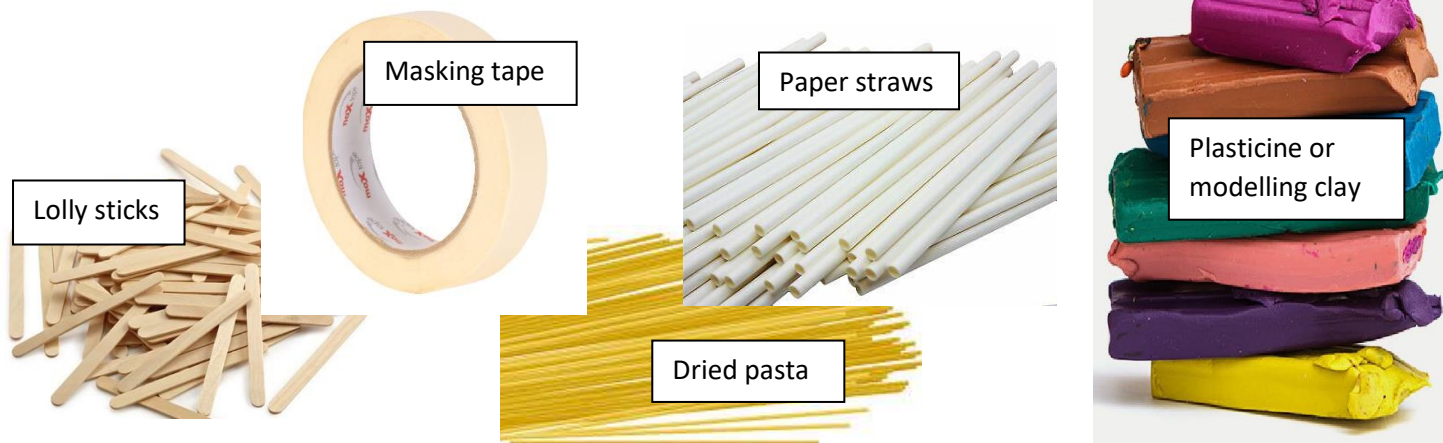
By the end of this project you will have:

- Learn about the **structure** of bridges.
- Think about the **forces** of **compression** and **tension** that are in play with a range of different bridge designs.
- Worked as a team to design and make a bridge out of pasta.
- Created a range of different bridge **designs**.
- Use a range of materials to create a bridge, following my design.
- Completed a series of **evaluations** throughout the project.



Practical skills you will use:

- **Construction** of a successful bridge.
- Problem solving as part of a team.
- Using limited resources for your construction.



Key Vocabulary

Structure	The way something is put together.
Forces	The act of pushing or pulling on an object.
Compression	A force where an object is "squashed" by pressure from other object.
Tension	A force where an object is pulled tight between two fixed points.
Construction	The act of making your bridge.
Design	A neatly labelled drawing of what you think your bridge is going to look like.
Evaluation	Thinking carefully about your work, considering what went well and what you could have improved.