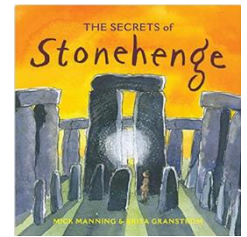


### What can I remember?

- ✓ Big Picture Book Of London (Y2):  
Great Fire of London Monument



## “What are the mysteries of The Stone Age? (D&T)”



### Important People

#### Ludwig Mies van der Rohe (1886- 1969)

A German-American architect who designed many buildings, but became famous for designing the **Barcelona chair** – a chair supported by two curved steel bars.



### Take Aways

- ✓ I can use mock-ups to help me design a free-standing structure.
- ✓ I can use a buttress to support my structure.
- ✓ I can make joins that cannot be seen (hidden joins).
- ✓ I can talk about my free-standing structure, suggest improvements and say why it is suitable for its job.
- ✓ I can suggest changes to a structure to make it more rigid and stable.

### Vocabulary

**base** - the bottom of something considered as its support

**buttress** - a structure added to a wall, tower or framework to make it more stable and/or make it stronger

**free-standing structure** – a structure that can stand up on its own without being attached to anything else

**hidden join** - a join of 2 or more materials together which cannot be seen by others

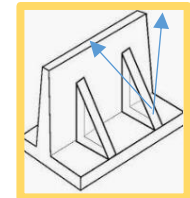
**mock-up** – a demonstration or practice of a technique or part of a product.

**rigid** – not flexible, difficult or impossible to bend

**score** - a line cut or scratched into a surface of the material to help with folding.

**shelter** - something that covers or protects

**weight** - the amount that something weighs, or amount of weight something can hold.



Buttress' supporting a wall.



scoring

### Big Ws

- A **freestanding structure** is a structure that **stands on its own** base without being attached to anything else.
- Some **materials** are better than others when creating free-standing structures because they are **stronger and more rigid**, e.g. card is stronger than paper.
- Structures with a **wider base** are **more stable**. **Buttresses** can also make a structure more stable.
- **Scoring** material creates a crease so that it can be folded more easily and accurately.
- Structures which are **strong and rigid** support more **weight**.
- Different materials can be used to **join** sections of a free-standing structure, but only some create hidden joins.

Sellotape



masking  
tape



double-sided  
tape



glue



staples

