

2021 3M Young Innovators Challenge



Mighty Monument Challenge

Materials list 2021

Permitted materials

- ▶ Wood – including, but not limited to, cocktail sticks, matchsticks, lollipop sticks, dowel or sheet
- ▶ Plastic – including, but not limited to, plastic bottles, straws, foam, rod or sheet
- ▶ Paper or cardboard in any form
- ▶ Fabric
- ▶ Thin rope, string, wool or other thread
- ▶ Foil, film or other similar sheet material
- ▶ Paper clips, staples, glue, tape, split pins or other similar connecting materials
- ▶ Any decorative materials including but not limited to stickers, paint, pen, pencil, crayon, glitter and feathers

Excluded materials

- ▶ Commercial monument construction kits

Dimensions

- ▶ The structure should support as much load as possible, up to a maximum of 10kg, held in a container whose base is at a height of 900mm
- ▶ The monument itself may extend beyond the height of the loading container, if desired. There are no restrictions on the overall dimensions of the monument
- ▶ The Challenge is focused on the concept of ‘strength to weight ratio’ rather than outright weight holding capacity. Therefore, a lightweight structure holding less than 10kg could potentially outperform a heavier structure that supports the maximum load
- ▶ The monument may either be themed on an existing world monument or pupils may research and construct a monument to honour a person or event relevant to the school’s locality

