

DESIGN TECHNOLOGY

Key Stage 2

Towers

This one day project is aimed at upper Key Stage 2 children and enables them to develop their knowledge and skills of construction focusing on towers and pulleys. As well as Design Technology links there are also links to the Key Stage 2 Science and Art and Design curriculum.

Pupils will learn how medieval builders constructed the 'Crooked Spire' on Chesterfield's Parish Church. They will visit Chesterfield Museum to see the original builders' windlass, and they will take part in designing and making a tower and pulley system using 'Lego'.

This day programme is offered on Mondays and Thursdays in the spring term (other days may be available by negotiation).

Please note there is an additional charge to climb the tower, payable direct to the church on the day. Please contact us for more details.

Towers

PROGRAMME

- 9.30 **Arrive at Chesterfield Library – Welcome**
- Introduction to towers as structures and begin to think about the forces and construction techniques involved in building a tower.
- 10.00 **Fieldwork**
Visit to the ‘Crooked Spire’ and Chesterfield Museum and Art Gallery to carry out fieldwork activities.
This involves a visit to the top of the tower (climbing the narrow spiral staircase), work inside the church and a visit to see the medieval builders’ windlass in the museum.
- 12.15 **Lunch** – please bring your own packed lunch to eat in the Library.
- 12.45 **Classroom activity – Building a tower and pulley system**
Work in small groups to build a tower with a pulley system to a specific design brief using ‘Lego’ construction kits and other materials.
- 1.45 **Break** – an informal break to allow the children to go to the toilet, have a drink etc. - Please bring your own drink.
- 2.00 Presentation to other groups about their design solution.
- 2.30 **Leave**