

Dear Year 5, Parents & Carers,

Here is our enquiry question for this half term. Please use these ideas to help your research or bring things into class to support your learning.

Have Fun!
Miss Heckels & Mrs Thain

Greenfields
Community Primary School,
Nursery & Pre-School



Upper Key Stage 2 ~ Summer II
CURRICULUM OVERVIEW

**How is the Tyne Bridge
strong enough to hold all
the Great North Run runners?**



As AUTHORS we will:

- Write stories about fictional bridges - link to 'Bridge to Terabithia'
- Create fact files about bridges over the river Tyne
- Write persuasive letters in favour of the construction of a new bridge

As READERS we will:

- Read informational texts to learn about the construction of bridges around the world and in our region

As ARTISTS we will:

- Use software packages to scan images then alter and adapt them to create digital art
- Explain how we have used tactile qualities of materials for a particular intention

As Designers we will:

- Compare bridges by talking about their features
- Understand different ways of making a structure strong such as using triangles and arches
- Investigate ways of strengthening paper and card
- Select and use appropriate joining techniques
- Understand the use of hydro-electric power used to move the Swing bridge
- Design a bridge using annotated drawings
- Build a bridge to fulfil a brief
- Devise a way of testing the bridge's strength
- Evaluate a design including ways of strengthening and stabilising a model
- To find out how individuals in design and technology have helped shape the world

As MATHEMATICIANS we will:

- Use precise measurements of length and weight in the construction of our bridges and the evaluation of their strength

As SCIENTISTS we will:

- Understand the forces which hold bridges up and support tunnels
- Understand mechanical systems which move the Swing bridge and the Millennium bridge

As GEOGRAPHERS we will:

- Look at the many varied ways of crossing the river Tyne
- Use maps, plans and aerial photos and the web to study crossings over the river Tyne
- Consider why the different ways of crossing exist
- Locate important bridges around the world such as the Sydney Harbour Bridge, Golden Gate suspension bridge.