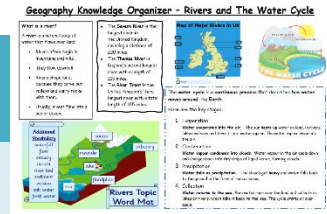


Bridges and Rivers Year 4/5: Spring 2



Coverage:

To find out about Bridges and Rivers:-

- Name the three longest rivers in the UK
- Identify the different parts of a river
- Explore and identify forces
- Find out about the different types of bridges
- Name some famous bridges/structures
- Explain the water cycle
- Find out how structures are strengthened
- Explore and test the strength of different shapes

Key Language and Vocabulary:

Structure	River
Bridge	Flood
Cantilever	Source
Arch	Meander
Swing	Mouth
Rope	Tributary
Suspension	Erosion
Force	Deposition
Gravity	Water cycle
Tension	
Resistance	
Push	
Pull	

Key Questions:

- Which is the longest river in the UK?
- What are the main rivers that flow through Tewkesbury?
- What is the water cycle?
- What is erosion?
- What are the water sources in our local area?
- Why are rivers so important?
- What are the effects of river pollution?
- What do you call the different stages of a river?
- What is a force?
- What forces are acting on a bridge?
- What is gravity?
- How can I reduce the effects of air resistance?

Key Knowledge:

Geography:

- I can name and identify the three longest rivers in the UK (Severn, Thames, Trent.)
- To be able to explain the different steps of the water cycle
- To explain the process of erosion, deposition and flooding and how it can affect people.
- To name the features of a river
- To name some uses of a river and understand how land use is different along the river's course and areas around it

Key Knowledge:

Science:

- I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- I can identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.



Christian Value of the half term:
Friendship



Music: Unit 'Freedom to Improvise'

In our music, we will be exploring how improvisation gives you the freedom to express yourself and how music shapes our way of life. We will be singing and listening to varied pieces and playing, improvising and composing.

French:

In our French lessons, we will revise ways to describe people, using *avoir* and *être* phrases and learn how to describe people's nationality.

D.T: • I measure using mm and then use scoring and folding to shape materials accurately with a focus on precision. • My joins are strong and stable, giving extra strength to my products. • Some joins are flexible to allow for dismantling or folding. • I can create my own design to support our project • I can evaluate my ideas and work • I use scoring and folding to shape materials accurately. • I make cuts (scissors, snips,) accurately. • I make holes (punch) accurately. • I can use methods of working that are precise so that products have a high quality finish.	PSHE: Healthy Me (Jigsaw) In PSHE, the <i>Healthy Me</i> unit teaches children how to make healthy lifestyle choices, understand the risks of smoking and alcohol, and recognise peer-pressure. It promotes keeping both body and mind healthy through safe, responsible decision-making	PE: In PE we will be continuing to work on our swimming skills and in <i>Gymnastics</i>, hold shapes that are strong, fluent and expressive and develop our use of hand apparatus and low apparatus.
Maths: We will start a new unit on understanding fractions; adding and subtracting fractions and finding fractions of quantities. We will then be moving on to look at decimals.		Computing: <i>Flat-file Databases</i> In this unit we will look at how a flat-file database can be used to organise data in records. We will use tools within a database to order and answer questions about data. We will create graphs and charts from their data to help solve problems. We will use a real-life database to answer a question and present our work to others.
English: We will celebrate World Book Day and have a look at some different types of poetry having a go at reciting them to others. For this half term Sundial Class will be using 'The Iron Man' as part of their guided reading comprehension and to support in their written work. Sundial will be writing narrative and explanation texts.	Art and Design: In our Art and Design we will be developing our drawing skills. We will use research and use real life to inspire our drawings as well as exploring line, tone, shape and texture.	
Enrichment: • World Book Day • Geography field work skills		Pupil Leadership and Social, Moral, Spiritual and Cultural (SMSC): • Collective Worship • Comic Relief Day • Easter Service