

Castles

What is a castle?

What are some key features of a castle?

What were castles used for?

Where are some different castles in the world?

Who lived in a castle?

Would you like to live in a castle?

Were castles safe places?

Towers

What is the tallest tower in the world?

Where is the tallest tower in the world?

What makes the Leaning Tower of Pisa lean?

How do towers stand up?

Which materials are towers made from?

What makes a structure super?

Can you name some super structures?

Where are these super structures in the world?

Tunnels and Bridges

What is a tunnel?

Which tunnels are in our local area?

What are some different tunnels around the world?

How are tunnels used differently around the world?

What is a bridge?

Why are bridges shaped in different ways?

Which materials are tunnels and bridges made from?

Can you design your own tunnel or bridge?

Isambard Kingdom Brunel

Who was Isambard Kingdom Brunel?

What did he do?

Can you name some of his structures?

Do we still use Isambard Kingdom Brunel's structures and techniques today?

What would you like to be when you grow up?

Can you engineer your own structures using materials?

John McAdam

Who was John McAdam?

What did he do?

How did he change road building?

Do we still use John McAdam's structures and techniques today?

Would you like to be an engineer?

Would you like to invent a new material?

Materials

Can you name some different types of materials?

Can you compare the use of everyday materials around the school?

Are all materials used for the same thing?

Are all materials available to everyone?

Do all houses and buildings look the same?

Can the shape of solid objects be changed?

How?

Bonfire Night

Why do we celebrate Bonfire night?

Who were the key people involved in Bonfire night?

How could King James have acted differently to avoid the gunpowder plot?

What do we do to celebrate Bonfire Night?

How do we stay safe during Bonfire Night?