

Hook:  
VR headsets?



# Towers, Tunnels and Turrets

## Focus: Science, History and DT



Characteristic foci:  
Articulatory

Trip:  
Warwick Castle

### Knowledge:

What do castles look like?  
What materials were they made from?  
How big are castles?  
What materials could I use to represent the different features?  
How can I join different materials together?  
What is a sketch?  
What is a model?  
What is an evaluation?  
How can I make my structure stronger?  
What is a tower?  
What is a tunnel?  
What is a turret?  
Why did people live in castles?  
What is a castle?  
What are the different features of a castle?  
What is a material?  
How many different materials can you name?  
What everyday materials would be suitable to build a castle?

### Learning Journey:

What is a castle? Who would live in a castle and why? What jobs did people who worked in a castle have? Research into the different roles within a castle. What different events took place in a castle? Do people still live in castles now?

### Learning Journey:

What are the different features of a castle? Why were castles made the way they were? What features does a castle need to have to protect those who live inside?  
What materials would the different features need to be made out of and why?

### Learning Journey:

Link to previous lesson about different materials. Children will design and create different structures including towers, tunnels and bridges using a range of different materials. Children will test and alter their structures accordingly to make them stronger, stiffer and more stable.

### Learning Journey:

Plan 3D castles. What different features do we need to include? How can we make the drawbridge move? Start creating castles in small groups using junk modelling materials. Recap on previous learning from experiment. What materials are going to make a strong castle? Children to reflect on experiment and use results to inform material choices when making their castle.

### Vocabulary:

Research, Design, Make, Evaluate, Model, 3D, Cutting, Shaping, Joining, Finishing, Compare, Similarities, Differences, Mechanism, Materials, Textiles, Levers, Sliders, Wheels, Axles

Castle, Towers, Turrets, Tunnels, Moat, Drawbridge, Portcullis, Arrow Slits, Battlements, Keep, Invade, Attack, Safety, Protect, Land, Control, Farmers, Banquet

Material, Squashing, Bending, Twisting, Stretching, Solid, Compare, Identify, Wood, Metal, Plastic, Brick, Rock, Paper, Cardboard, Shape

### Skills:

Research castles to know what to include in 3D castle model.  
Articulate my ideas to others and discuss together.  
Work collaboratively in a group.  
Design a sketch of the model and label.  
Select from and use a wide range of materials and components, including construction materials and textiles.  
Identify similarities and differences between ways of life in different periods.  
Use a wide vocabulary of everyday historical terms.  
To be safe when cutting and shaping different materials

### Curriculum Coverage:

**Science:** Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, brick, rock, paper and cardboard for particular uses.  
Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.  
**History:** Changes in living memory. Where appropriate, these should be used to reveal aspects of change in national life.  
**Design and Technology:** Generate, develop, model and communicate their ideas through talking, drawing, templates, mock ups and where appropriate, information and communication technology.  
Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. Explore and use mechanisms for example, levers, sliders, wheels and axis, in their product.  
build structures, exploring how they can be made stronger, stiffer and more stable

### Learning Journey:

Children to continue making castles. Once design element is finished, can they label each feature of a castle? Why have they included them? What are they for? Children to show 3D castles to another year group and articulate what they have learnt from the topic.

### Display Plan:

Big castle with labels of the different features and description.  
Pictures from trip to Warwick castle  
3D models of castles

### Outcome:

To create 3D castles using tested materials and show to another class - articulating their learning

# Wriggle and Crawl

## Focus: Science and History

What do they already know?

Distinguish between an object and the material from which it is made

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock

What are the properties of a variety of everyday materials?

Compare and group together a variety of everyday materials based on physical properties

How will they remember it?

Recap prior learning from Year 1 at the beginning of the topic that links to new topic

Recap previous lessons at the start of each lesson

Class quizzes at the end of lessons

Play KABOOM

Make links between different topics clear to children to show how everything links together

Make links between what they learnt last year and how we are building on it this year

Key vocabulary to be displayed around the classroom

Key vocabulary word mats to support those who need it with learning new vocabulary

Which resources will I need?

Junk modelling to make 3D Castles

Ipad's to conduct research

What do I need to know to be able to teach this?

What are the different features of a castle?

What were the different features made out of?

What castles are local to us?

Knowledge about Warwick castle

What are the different roles within a castle?

Who would live in a castle?

What events took place in a castle?