

Y3 Design Technology – MTP Structures unit – autumn term

Ladders:

LI: Y3S-D1 I can design a castle with key features to appeal to a specific audience.

LI: Y3S-D2 I can draw and label a castle design using 2D shapes, labelling: -the 3D Shapes, materials needed and colours.

LI: Y3S-M1 I can construct a range of 3D shapes using nets

LI: Y3S-M2 I can make features from a range of recycled materials.

LI: Y3S-E1 I can evaluate own work and the work of others based on the finished product and in comparison, to the original design.

LI: Y3S-E2 I can suggest points for modification of the individual designs.

Before Lesson:	Stick in the front cover. Pre-assessment: https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-3/structures-constructing-a-castle/assessment-dt-y3-structures-constructing-a-castle/ Stick in knowledge organiser – allow the children some time to look over it. Do they recognise any of the answers from their pre-assessment?	Stick on the front cover Pre-assessment sheet KO	
Lesson 1	Features of a castle: Recap and recall: What is a natural structure? Natural structures are those found in nature: Shells, Trees, Caves, Nests. What is a man made structure? Man-made structures are those made by people: Bridges, Houses, tables. What do we mean by the word 'structure'? Shapes and structures with wide, flat bases or legs are the most stable. The shape of a structure can affect its strength. A stable structure is one which is firmly fixed and unlikely to change or move. Attention Grabber -What are castles for?	Attention Grabber	

- Who lives in castles?
- Where do we see castles?
- Which stories have castles in them?

Teacher: Go through the Presentation: Features of a castle slides 2 to 6 to discuss the different types of castles. <https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-3/structures-constructing-a-castle/lesson-1-features-of-a-castle/>

Go through the 'think about' slides: <https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-3/structures-constructing-a-castle/lesson-1-features-of-a-castle/>

Teacher: Go through the Presentation: Features of a castle slides 2 to 6 to discuss the different types of castles. <https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-3/structures-constructing-a-castle/lesson-1-features-of-a-castle/>

We have just had a little think about different types of castles...

We know the features of castles and their uses.

How much can you remember?

Answer questions one and two as best you can. We will revisit this at the end of the unit.

LI: Y3S-D2 I can draw and label a castle design using 2D shapes, labelling: -the 3D Shapes, materials needed and colours.

Stick this sheet into your books...

You are going to design your own castle.

Think about:

Stability – When something is firmly fixed or not likely to change or move, for example, a house, a mountain.

Strength – Someone that is strong or something that is strong and not easily broken, for example, wood, brick, building.

Stiffness – A material or object that does not bend easily, for example, metal/a metal pole/climbing frame.



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Lesson 2	<u>Designing a castle:</u> Teacher (before lesson): https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-3/structures-constructing-a-castle/lesson-2-designing-a-castle/		
Lesson 3			
Lesson 4			
Notes:			