

To design a Mayan Temple

Computing

Knowledge organiser

Learning Lens: Digital Literacy—using and applying
Class: 6

Previous Knowledge

Using Tinkercad to create avatars—Created a 2D representation of a character using papercraft materials. Created a 3D representation of a character within Tinkercad. Used mathematical computation to solve real-world problems. Introduced a 3D avatar to the teacher or the class.

Project Hook or 'Wow' memory

To design a Mayan Temple

Learning Steps

Key Knowledge (answers)

Use technology and sketching to develop an organized system for drawing ideas

Use technology and sketching to develop an organized system for drawing ideas and documenting progress.

Develop proportional models based on real measurements

Use technology and sketching to develop an organized system for drawing ideas and documenting progress. Develop proportional models based on real measurements.

Convert feet/inches to millimeters

Convert feet/inches to millimeters. Choose an appropriate scale to create a Mayan Temple on a Tinkercad workplane.

Choose an appropriate scale to create a room on a Tinkercad workplane

Create a 3D Mayan Temple and accessories that are easily identifiable. To ensure all the key models are to scale in relationship to the other models.

Create a 3D Mayan Temple and accessories that are easily identifiable

Create and design 3D models of accessories which are linked to artefacts and items linked to Mayan Temples. Children to research items found in an Mayan Temple.

Design a 3D Mayan Temple Shelter that can be 3D printed

To create an Mayan Temple using the correct dimensions and scale including accessories linked to work on the Maya

The key skills we want pupils to use during this topic:

2D design

3D design Mathematical computation

Brainstorming

Geometric design

Measurement conversion

• Spatial reasoning

Key vocabulary

sketching

Designing the Mayan Temple in a sketch book

Proportionate models

Ensuring all items are designed at the proportionate size compared to other pieces of furniture in the shelter

Blueprint

A draft design of their Mayan Temple

Scale

Choosing an appropriate size within the tinkercad workplane.

Dimensions

A measurable extent of a particular kind, such as length, breadth, depth, or height.

Accessories

A thing which can be added to something else in order to make it more useful, versatile, or attractive.

Statutory Requirements

Select, use and combine a variety of software (including internet services) on a range of digital devices to design

