

# Can we design our own Roman villa?

## What will we be learning?

- To select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs.
- To use technology safely, respectfully and responsibly.
- To understand and know how to use CAD (Computer-Aided Design)

## What we you be doing?

- We will research different Roman villa designs, identifying key features.
- We will choose examples of Roman villas and look at likes and dislikes and discuss why.
- We will sketch and design our own Roman Villa using design ideas.
- We will look at how CAD can be used for designing and have opportunities to experience using the different tools including how to create copies, curves, add images
- We will use a CAD program to create a 2D floor plan of our Roman Villa using MS Paint, Textease or Sketchpad.

## Prior learning

Create a simple algorithm for a computer to follow (Y4)

## Future learning

Organise and adjust communication according to the needs of the audience and the technology

## Words we will be using

### floor plan

a scale diagram of the arrangement of rooms in one storey of a building



### sketch

a rough or unfinished drawing or painting, often made to assist in making a more finished picture.

### vertical

an upright structure.

### Bird's-eye view

a general view from above



### 2D / 3D

2D is "flat", using the horizontal and vertical dimensions, the image has only two dimensions and if turned to the side becomes a line. 3D adds the depth dimension.

### rotate

move or cause to move in a circle round an axis or centre

### program

a series of coded software instructions to control the operation of a computer or other machine.

### software

the programs and other operating information used by a computer.

### CAD

CAD or computer-aided design and drafting (CADD), is technology for design and technical documentation, which replaces manual drafting with an automated process.

### graphic design

the art or skill of combining text and pictures in advertisements, magazines, or books.

### plane

a flat surface on which a straight line joining any two points on it

### horizontal

parallel to the plane of the horizon; at right angles to the vertical

