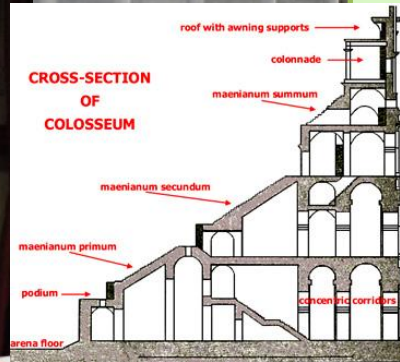
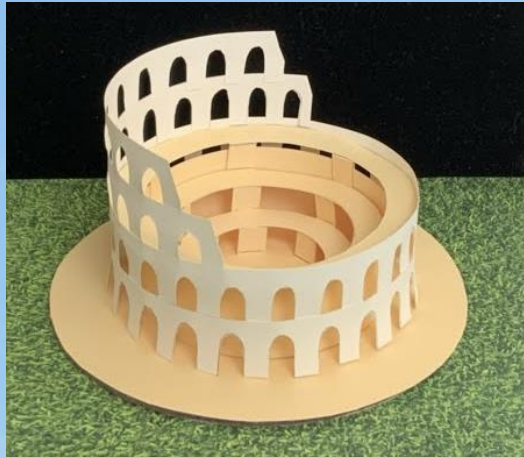


Year 3 - DT Knowledge Organiser - Construction (Italy)



- We will learn how to:
- select appropriate tools/techniques.
 - show design meets and follows a given design criteria.
 - Begin to make a strong, stiff structure
 - begin to measure, mark-out, cut and shape materials/components with some accuracy.
 - begin to assemble, join and combine materials and components with some accuracy.
 - begin to apply a range of finishing techniques with some accuracy.
 - Begin to learn about inventors and designers.

Design

Make

Evaluate

Key Vocabulary

Colosseum	A historical, oval shaped amphitheatre in Rome, Italy.
Design	To use existing products to plan, draw and label our own diagrams for what we are going to make.
Evaluate	To say what was successful and what we could improve in our products.
Leaning Tower of Pisa	A bell tower in Pisa, Italy famous for leaning to one side.
Stiff	A material that is string and that's doesn't bend easily.
Structure	An object or building that is made up of different parts.

Flange

A way to connect tubes or pipes

1

Make small cuts from the bottom heading up to the middle.

2

Each cut needs to be the same size, height and width.



3

Fold the sections out to create a stable base to glue the tube down.

Tie

A way to use string to secure and make a hinge

1

Hole punch holes into the cardboard.

2

Thread string through both holes.



3

You might need a friend to help you hold while you tie the knot.

L Brace

A way to connect two pieces with a 90° angle

1

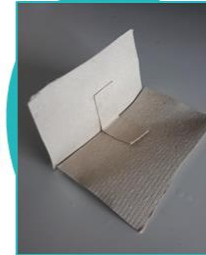
Take two pieces of cardboard, one lies flat as the base, the other stands up to make the L shape.

2

Take a small rectangle piece of cardboard and fold it in half.

3

Glue the back of your folded piece and attach it to the bottom and side of the L shape.



Tabs

A way to attach a standing wall

1

Make small cuts from the bottom heading up to the middle.

2

Each cut needs to be the same size, height and width.

3

Fold the sections out to create a stable base to glue the wall down.



Slot

A way to connect flat pieces together

1

Take two pieces of cardboard and make a cut into a side to attach.

2

Slot one cut inside the other.

