

## Lower 5 3D design: Tic-Tac-Toe



This term Lower 5 have been building their manufacturing skills and have started working on a selection of small skill-based projects to support component 1 of their GCSE 3D design coursework. Our first project is a small box that houses a Tic-Tac-Toe game.

Tic-Tac-Toe games (although they have gone by many other names) can be traced back to ancient Egypt where such game boards have been found on roofing tiles dating from around 1300 BC. An early variation of tic-tac-toe was played in the Roman Empire around the first century BC. It was called 'terni lapilli' (*three pebbles at a time*) and the game's grid markings have been found chalked all over Rome.

Pupils have learnt about the origin of this game and have carried out research into existing designs. They have learnt about different types of wood joints and how to accurately mark-out and manufacture a comb joint. As part of this project pupils have also learnt how to use CAD/CAM and have each designed a lid for their boxes incorporating etched and cut lines into their designs.

A great start to the GCSE 3D design course Lower 5!

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