

Make a 3D model of a garden structure

Subject(s): Mathematics

Grade(s): 4

Key Stage: 2

Learning intention(s):

Students make a 3D model of structure for the garden.

Mapping to curriculum:

Mathematics

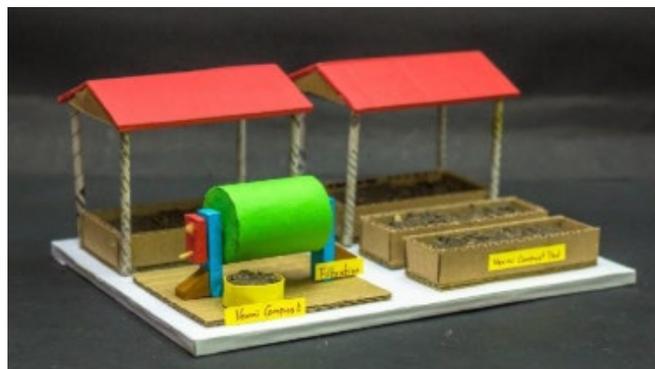
- Recognise, name, sort, and make models of 3D objects. Describe them using everyday language.
- Make skeleton models of 3D shapes and identify 3D shapes from pictures and sketch all faces of 3D shapes on paper.
- Make double layered solids, as in pictures, using cubes.
- Begin to identify the cross section of prisms. Visualise 3 dimensions from 2D drawings. Make cubes and cuboids from nets.

Visual Art

- Create 3D objects from a variety of available materials

Lesson Instructions

1. Students are tasked with designing a new structure for the school's garden. Their design must include a 3D model. Examples include a dome-shaped greenhouse, a cone-shaped plant trellis, a cube-shaped compost bin, or a spherical garden sculpture. Encourage students to use their knowledge of shapes.
2. Students sketch their chosen structure in their workbooks.
3. Along with the sketch, students write a short paragraph highlighting the key feature of their design (e.g., dome, cone, cube).
4. Using modelling clay or other available materials, students build a 3D version of their structure.
5. Display the finished models safely in the classroom for everyone to see.



Source: <https://www.youtube.com/watch?v=t-Giupyncc>