

3D objects

Tec.Graphics

Statement Code no: 4

Student:

Class:

At Junior Certificate level the student can:

Apply the knowledge and skills of drawing needed to understand the design and construction of 3D objects

Date Commenced: / /

Date Awarded: / /

Learning Targets - This has been demonstrated by your ability to:

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|----|---|--|
| 1 | Recognise the following 3D shapes from your environment: sphere, cube, cuboid, cone | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 | Give examples of the above 3D shapes from the environment | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 | Recognise the following 3D shapes: square-based, triangular-based and polygonal pyramids and prisms | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 | Recognise and copy simple isometric objects made up of cubes and cuboids under direct teacher guidance | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 | Estimate and measure a small 3D object with rectangular sides and record measurements on a given 3D drawing | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 | Dismantle a cardboard container to show the shape of its construction | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7 | Understand an exploded view of a container | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 | Draw and construct a simple 3D container from a given development drawing containing dimensions, using paper or card | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 | Understand plan and front elevation of a simple object by reference to a 3D solid | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 | Demonstrate an understanding of plan and front elevation of a simple object by colouring surfaces on given isometric drawings | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11 | Draw a plan and front elevation of a simple everyday solid and insert dimensions | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 12 | Understand the following terms: elevation, isometric, development, envelopment | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 13 | Follow a simple design brief to draw and construct a simple container from card, plastic, metal, or wood | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Work begun | Work in progress | Work completed