At Junior Certificate level the student can:

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

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

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