

Bowling Polyhedra

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My project consists of concepts from the game of bowling, the key points being the ball and pins. I constructed an icosahedron [truncated] to act as the ball from cardboard mainly used in shipping boxes. This shape was achieved by expanding upon the 5-6-6 pattern. This shape was chosen because it looks as if spherical yet still maintains that edgy polyhedron look. The object does not roll quite well but it serves its purpose. The shape is bound by hot glue and has three triangular holes for the fingers.

The lane was constructed out of a plastic casing for a spare tire and a sheet of foam. The plastic casing acts as a stopper so that the pins' and ball's movements are controlled. The lane can then be rolled up and placed in the plastic casing for storage or travel. Ha, ha, ha.

Lastly, the pins can be described as mirrored pyramids connected at each other's base with the tops squared off. Each pin is around ten inches tall and resembles a traditional bowling pin shape. The pins are also bound by hot glue and constructed out of cardboard. Each facet of my project has a polyhedra characteristic that puts a different spin on the old game of bowling.