

# Year Four: Structures

## Knowledge Organiser

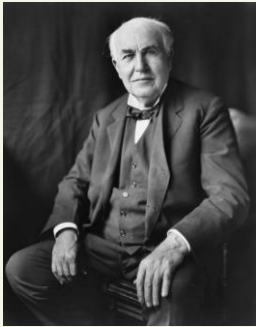


### The Big Idea

Pupils will develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate ideas. They will select and use appropriate tools to measure, mark out, cut, score, shape and assemble with some accuracy. They will investigate and evaluate a range of existing shell structures including the materials, components and techniques that have been used.

### Research the Engineer

#### Thomas Edison

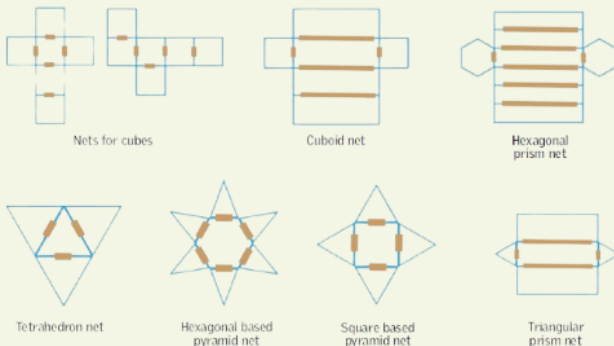


- Born February 11, 1847 in America.
- He is known for creating the first working lightbulb.
- He created The Phonograph – the first machine that was able to record and playback sound

### Design Brief

Design, make and evaluate a net to build a 3D gift box for an intended user.

### Make the Product



### Evaluate the Product

Does my product work for the intended purpose?

Is my product suitable for the intended user?

Does it meet the design criteria?

### Vocabulary

cuboid edge face font net prism  
scoring shell structure vertex