



I know ...

A freestanding structure is a structure that stands on its own foundation or base without attachment to anything else.

That some materials are better than others to use to make photo frames, because of their properties.

Common shapes and structures of a photo frame.

How everyday structures have been made stable.

The different components/features of a photo frame.

The different techniques to use with paper or card to make strong structures.

That a triangle makes the strongest structures.

The different materials you can use to ensure a product is strong



### Designing Vocabulary

**Annotate** - make notes on a diagram or design to explain.

**Criteria** - things a design can be judged against to see if it was successful.

**Design** - a plan for what something will look like, how it will be built, and listing the materials needed.

**Evaluate** - judge a product against a list of things it must have or do.

**Plan** - a decision about what you are going to do or how you are going to make something.

**Purpose** - the intention or aim of something.

**Test** - to try out techniques and products and see if they work properly.

### Making Vocabulary

**Mark out** - to draw lines or dots in something so that it can be clearly seen where to make a cut or fold.

**Accurately** - conforming exactly to a measure.

**Adjust** - change something to make it work better.

**Concertina** - a way of folding paper over and back to create a zig zag pattern and shape.

**Layering** - to form or arrange one thickness of something over another.

**Strengthen** - add something to make the structure stronger.

**Technique** - a way of doing something using special knowledge or skill.

### Technical Vocabulary

**Base** - the bottom of something that is the support.

**Component** - the parts needed to make something.

**Free standing** - not attached to or supported by anything else to make it stay in place.

**Reinforce** - strengthen or support with additional material.

**Stable** - not likely to give way or overturn.

**Structure** - an object constructed from several parts.

**Support** - to hold up or in position.