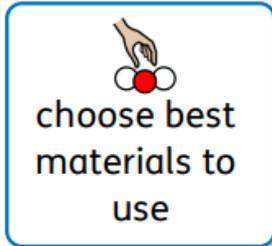
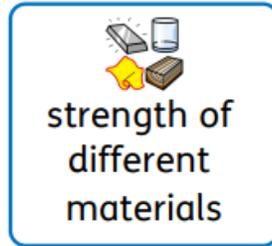
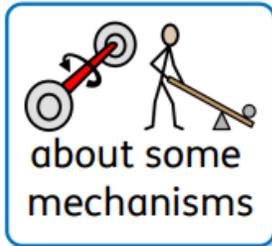
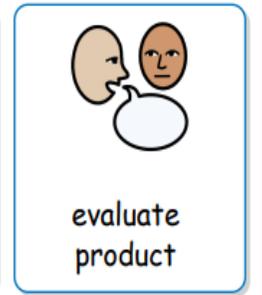
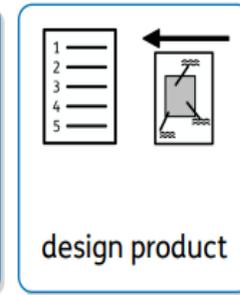


### What I should know already



### The Design Process



### Vocabulary

**Pneumatics-** A system that works using compressed air to cause motion.

**Mechanisms-** any tool used to convert or control motion or transmit control or power

**Levers-** levers are machines used to increase force. They have only two parts – the handle and the fulcrum. The handle or bar of the lever is called the "arm" – it's the part that you push or pull on. The "fulcrum" is the point on which the lever turns or balances.

**Adhesive-** Any substance that is able to hold two materials together.

### Early Warning System

This will alert people so that they know that a natural disaster is going to happen. This warning will give them time to get to safety.

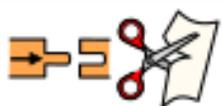


### The Design Process

#### What I should know already



produce  
labelled  
diagrams



joining and  
cutting safely



strength of  
different  
materials



choose best  
materials to  
use



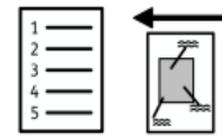
suggest ways  
to manipulate  
materials



build and  
improve simple  
structures



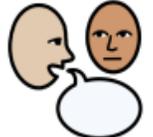
research



design product



make product



evaluate  
product

**Shell Structure** A shell structure is a hollow structure made from a thin outer layer. Many buildings use a shell structure including the O2 and Shard.

**Neolithic Hut** A simple hut that early humans lived in.



#### Vocabulary

**Prototype-** A model of a product from which improvements can be made.

**Modify-** To change something to improve it.

**Glue gun-** An electric tool used for melting and applying sticks of adhesive.

**Hack saw-** A tool used for cutting hard materials, that is made from a frame that holds a blade with small teeth.

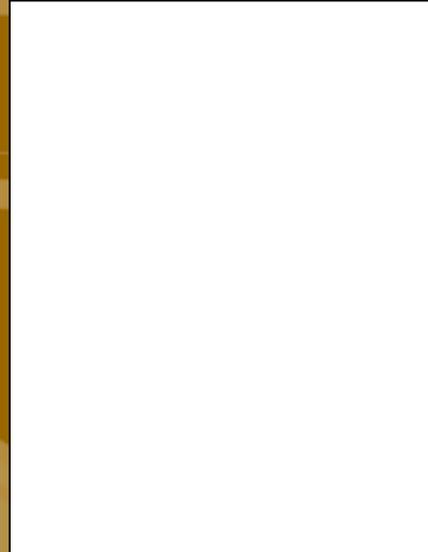
**G Clamp-** A device used to hold metal or wood still.

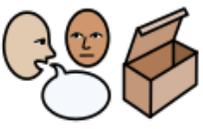
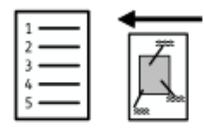
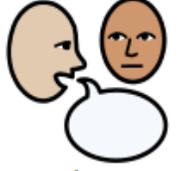
**Bench Hook-** a device with a hooklike part fitting over the front edge of a workbench as a means of preventing an object from slipping toward the rear of the bench.

### The Design Process

#### What I should know already

 How to prepare for cooking	 The need for a balanced diet	 How to use cookery equipment safely
 Measure using standard units with support	 How ingredients can be combined	 The places different food comes from
 Sources of different foods	 How to keep clean and tidy when cooking with support	 How to wash up with supervision



 research	 design product	 make product	 evaluate product
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#### Vocabulary

**Combine-** To mix two or more ingredients with a spoon, mixer or hands.

**Assemble-** Put together prepared or bought ingredients to create something different

**Portion-** The dividing up of a larger quantity into specific and equal serving sizes.

**Visually appealing-** Something that looks attractive and pleasing.

**Healthy food combinations-** A mixture of a variety of foods from the food groups that are good for you.

**A balanced diet-** A healthy diet contains food that helps to maintain or improve a person's overall health and wellbeing.

