



BHCET Design Technology

Definition of terms and techniques



Design

<p>Brief: To work to a specific set of rules towards an outcome. <i>e.g. You are asked to create a ...that can... and will appeal to... Your product must...</i></p>	<p>Design development: Creation of a range of ideas through sketching, discussion and exploration of materials, being able to analyse what works well to fit the brief.</p>	<p>Specification: a list of criteria a product needs to address. Using the brief as a starting point for research, a specification can be written when more facts are known.</p>	<p>Prototype: A prototype is a test, or model of a product or a technology from which improvements, upgrades or fundamental changes can be made. This can be the test of an element such as a join or mechanism and not the whole product</p>
<p>Component: A part or piece that combines with another part or piece to make something bigger e.g. wheels on an axel to make a model car.</p>	<p>Aesthetic: The visual qualities of a piece / item. e.g. appealing nature or companies specific style.</p>	<p>Design Process: The process/ stages followed to solve a design problem, from initial ideas to a final product/ outcome.</p>	

Joining techniques

Flange



Insert



Gusset



Fastener



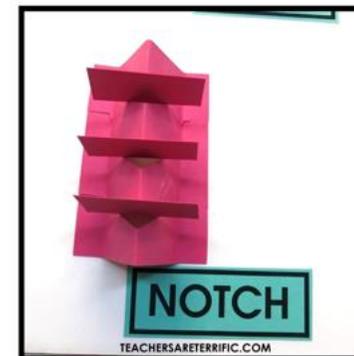
Tabs



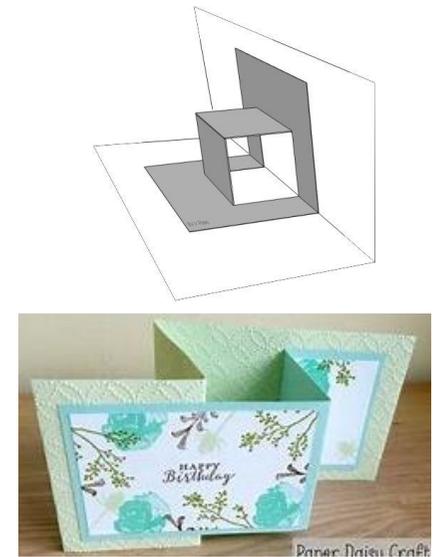
Wrap



Notch

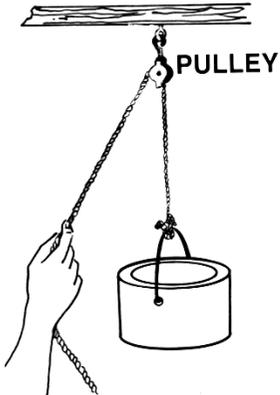
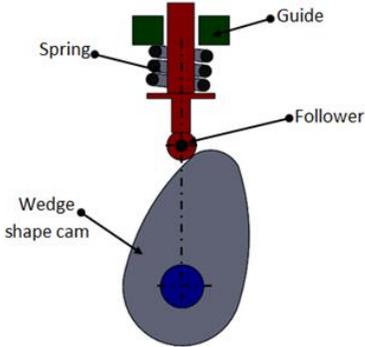


Hinge

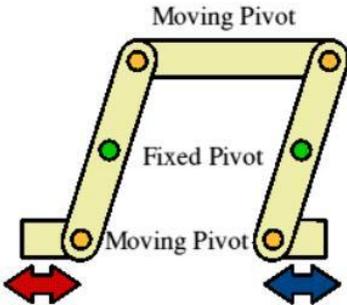


Mechanisms

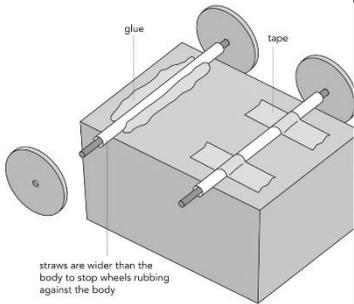
Cam



Linkage



Axel



Pneumatics

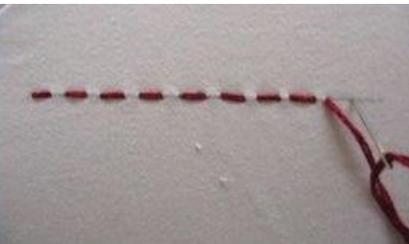


Textiles

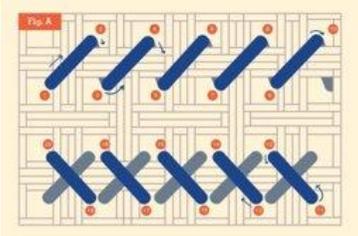
Applique



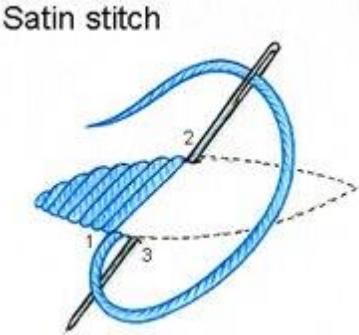
Running stitch



Cross stitch



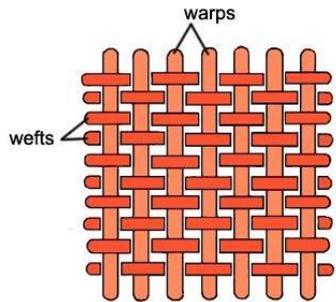
Satin stitch



Loom

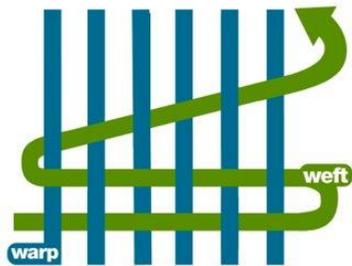


Weaving



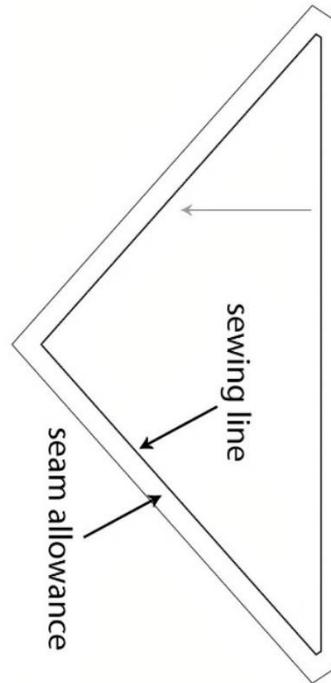
Warp and weft

Warp – up and down
(Let's do the Time Warp)



Weft goes left (to right)

Seam allowance



Yarn/ Thread

Yarn can be made of wool but is not always. Referring to anything resembling wool as wool is therefore incorrect.



Thread can be made of cotton but not always. Referring to thread as cotton is incorrect.



Fabric

3 main types

- Woven
- Stretch / knit
- Non-woven

Material refers to what something is made of. Fabric is a type of material.