Designing

Design a plan or drawing produced to show the look and function or workings of an object before it is made. To imagine and create a product to be made.

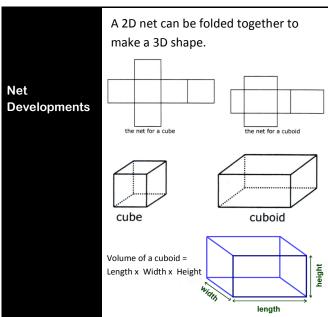
Constraint

a set size or **dimension** that can not be exceeded which acts as a limit.

Tolerance

the allowable difference between the intended size of a design and the final part or product.

Explore — STEM links



Materials

Cartridge Used for general drawing. It is often good quality and generally 100 to 135gsm in thickness. This paper is used for design and technology projects and will take colour from pencils and felt pens without too much leaking to the opposite side of the paper.

Pine

Paper

an evergreen coniferous tree which has clusters of long needle-shaped leaves. Many kinds are grown for the soft timber, which is widely used for furniture and pulp, or for tar and turpentine.

Hand vice

a small clamp or vice on a handle designed for holding small objects.

dowel

Dowel is a wooden rod used in supporting wood joints.





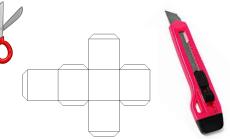
Gluing/taping tabs of your net development

Using scissors and/or a craft knife to carefully cut our your template. Accuracy is key here - if you don't cut it properly, it won't fit!

FOLD along dashed lines

CUT along solid lines

Applying glue or double-sided tape carefully to the



Critique

Manufacture

Cutting and

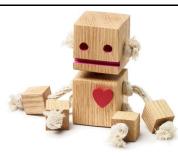
Folding

Functionality

Blok Bot

Once you have applied the design, you need to drill and assemble your Blok Bot with rope. You need to consider accuracy in the drilling and assembly.





Design Criteria

A list that you create or use when making a product, which outlines what the product must do, look like or be made from

Specification

A detailed list that clearly outlines the criteria for specific products

Evaluation

You should use your specification when evaluating products. This is to make sure you have made your product successfully. You should get other peoples' opinions about your product

