

# BRIEF

You have to design and manufacture a small bird feeder allowing the bird to easily access the food in all weather conditions. The product must be easily constructed and be made of environmentally friendly materials.

# RESEARCH

Designers will generally carry out a research in order to come up with the best solution to any given BRIEF.

Discuss briefly in the class what needs to be researched and take a note in your jotter.

# SPECIFICATIONS

Once you have carried out any research and having first read the Brief you should then be able to make up a short specification. We will use the DESIGN FACTORS of FUNCTION, SAFETY, ENVIRONMENT, and FINISH to focus on to assist us in our designing.

**FUNCTION** - The bird feeder must hold bird food securely and be attached to a post, tree or hung from a post or tree.

**SAFETY** - There must be no sharp edges on the product.

**ENVIRONMENT** -

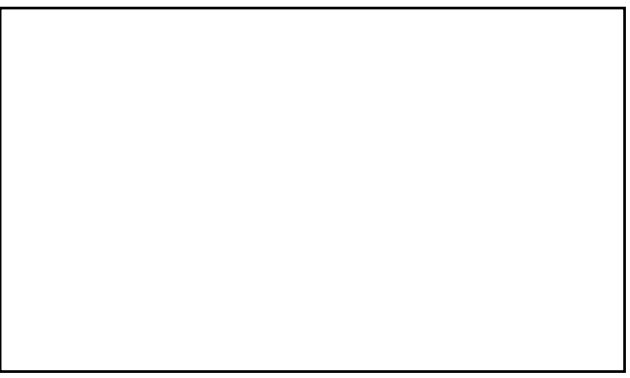
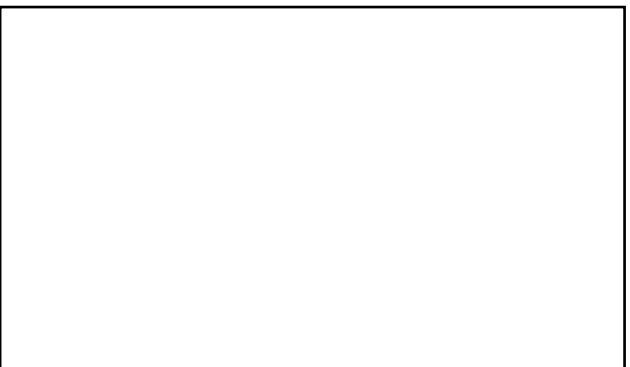
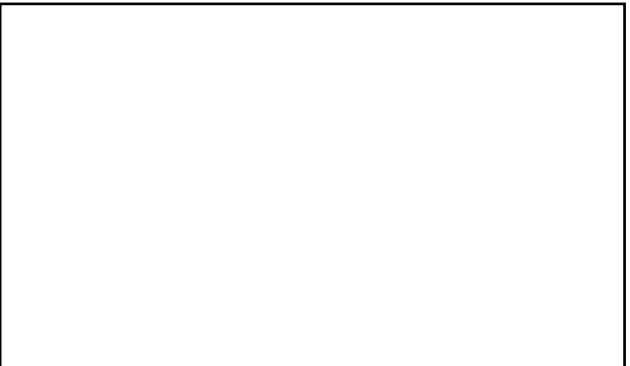
**FINISH**-

**MATERIAL** -

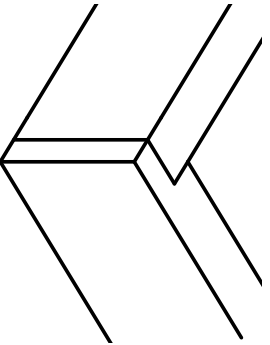
# DESIGN IDEAS

Keeping in mind the design brief, research and specifications it is important to think of different ideas for the bird feeder and try to communicate using sketches, drawings and notes.

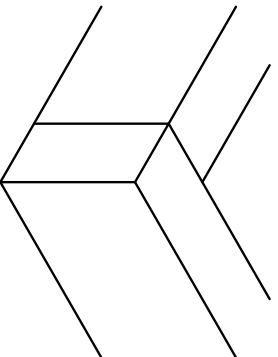
Trace or sketch using a ruler the three rectangles below and think about the shape of the ends of the bird feeder and what they could be like. Draw the changes onto the 3 rectangles. Add basic notes about what you are thinking.



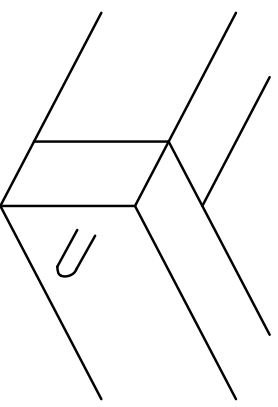
Trace the 3 drawings below of how to join the bases to the sides together and from a discussion with the class teacher decide which one would be best to use in the construction.



REBATE JOINT



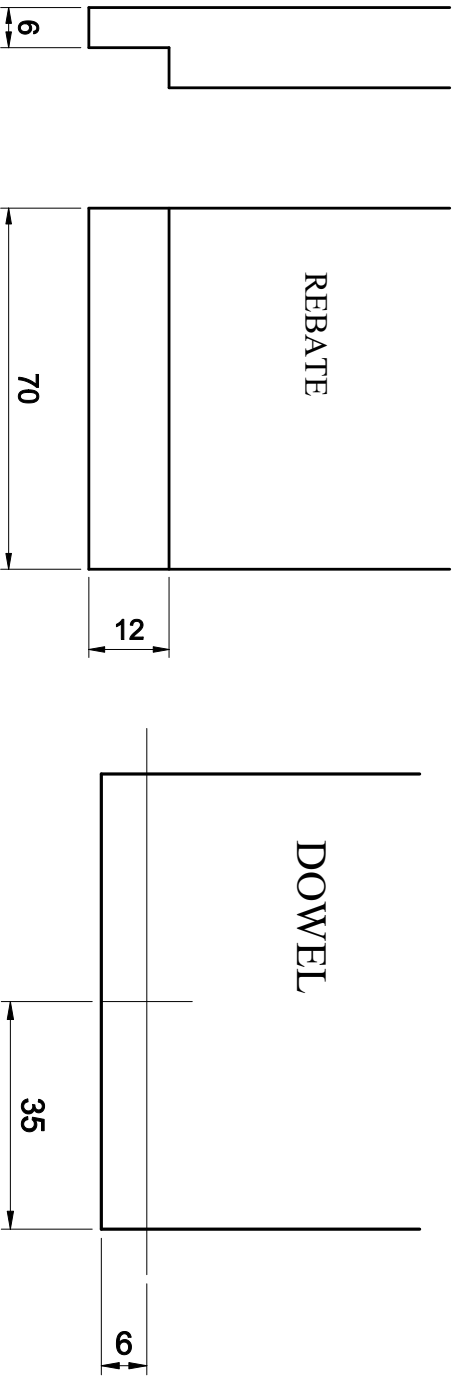
BUTT JOINT



DOWEL JOINT

# SOLUTION

DRAW OUT THE SOLUTION YOU HAVE CHOSEN TO MAKE FOR YOUR BIRD FEEDER AND COMPLETE THE CUTTING LIST IN YOUR JOTTER.



## CUTTING LIST

PART	LENGTH	BREADTH	THICKNESS	MATERIAL	NO OFF
FRONT/ BACK	120	70	12	PINE	2
BASE					
SIDES					
ROOF					

# EVALUATION

Your bird feeder is now constructed and you now have to evaluate your product based on the specifications. Look back at the specifications and write a report based on what you set out to make.

**Does it fulfil its FUNCTION?**

**Is it safe to use?**

**Is it well finished?**

**You can also get feedback from you peers and ask them to grade your product on the design factors (1-5)**

**Take note of anything they say that requires to make the product better.**