



Weather for Schools

Building a Basic Wooden Weather Station



This design is simply a guide. It is intended to be made by adults taking sensible safety precautions. The user is responsible for his/her own wellbeing and safety.

This easy-to-make weather station is intended for use with a Maximum and Minimum thermometer and a small humidity meter. This is the most basic of requirements for giving useful weather data. Naturally it would be best if this was supported with a rain gauge and a weather vane in the same locality. The length can be adjusted to suit the instruments to be housed. It is designed to be made from easily obtainable wood.

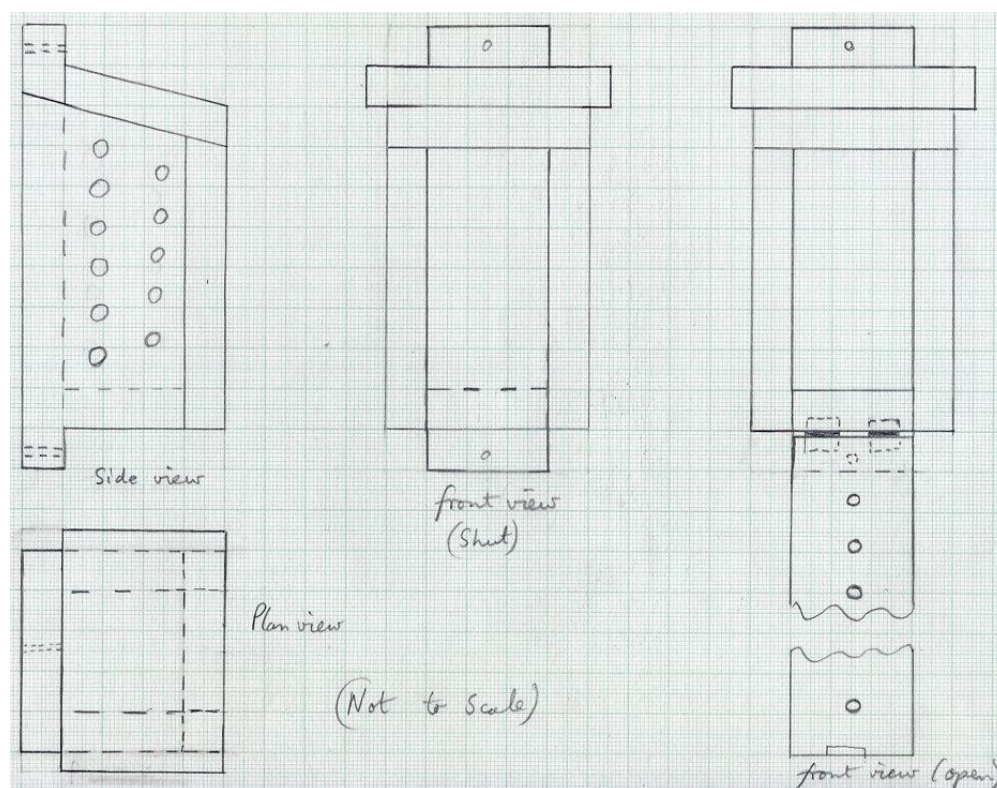
The weather station provides for circulation of air whilst stopping most rain and wind. The whole should be painted white to reflect sunlight. The whole should be mounted on the north facing side of a post so that the bottom of the thermometer is 125cm from floor level.

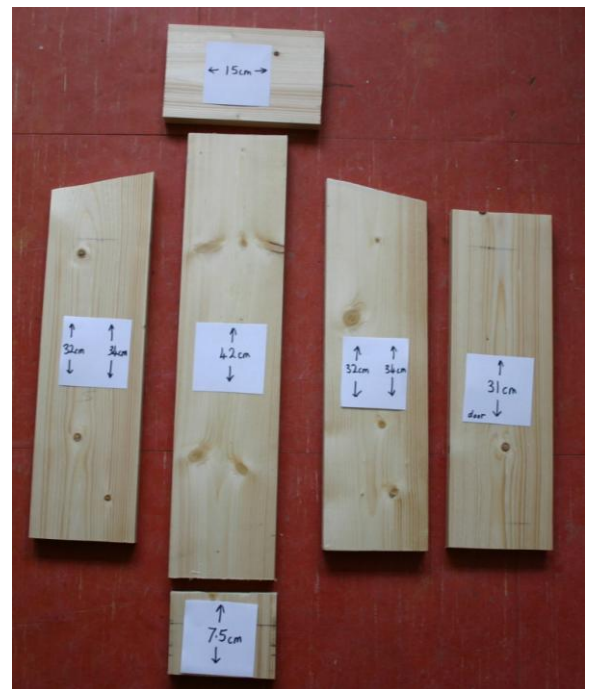
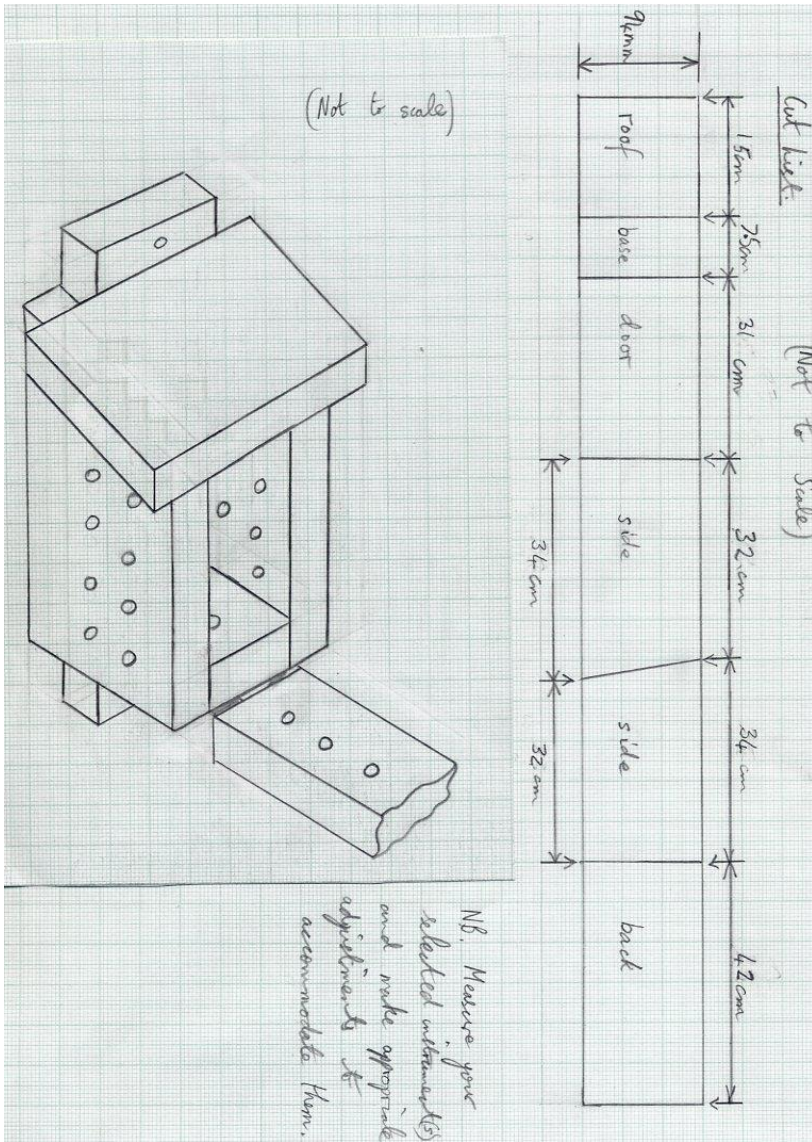
Materials

- 1 x plank of smooth planed wood 210cm x 9.4cm x 1.8cm
- 9 x screws No8 x 1 ¼ inch
- 2 x small brass hinges
- Magnetic or other catch
- Paint (primer, undercoat and gloss)

Tools

- Sandpaper
- Saw
- Drill
- Drill bit
- Hole cutter 16mm
- Countersinking tool
- Screwdriver
- Paint brush





Method

1. Mark the wood, cut and sand the pieces. Note that the sides are intended to slope at the top, so that the roof is sloping.
2. Rule a line 3cm from the bottom end of the back.
3. Fix the long edges of the sides to the back, aligned above the 3cm line (2 screws, drill and countersink)
4. Fix the base aligned above the 3cm line (one screw each side and one at the back).
5. Attach the roof, making sure it touches the back.
6. Drill mounting holes at the top and bottom of the back.
7. Drill 16mm ventilation holes in sides, front and base. These are at 5cm intervals. Avoid screws.
8. Sand, remove any sharp corners, fill holes and paint (final coat white gloss).
9. Mount door
10. Attach catch.

