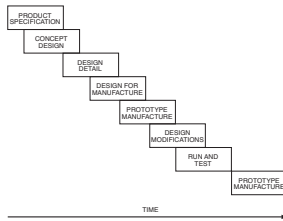


DESIGN CHECKLIST

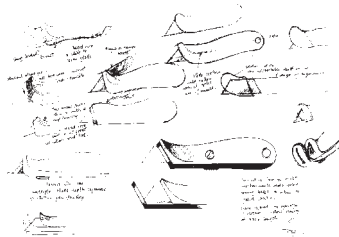
Have you:

Drawn up a clear specification of what is needed?

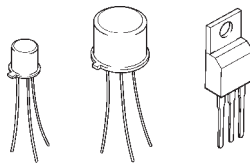


Planned what you are going to do? Noted down how long you think it will take to design, make and test your idea? Will you have enough time?

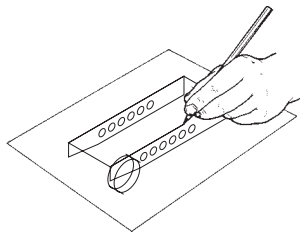
Gradually developed your ideas on paper and where necessary used models?



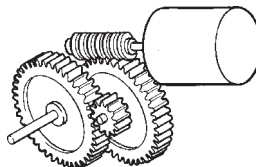
Decided where you can use ready-made components and where you will have to make components?



Produced an assembly drawing of your design and working drawings of the parts that you will have to make?



Decided what materials are needed, for example, will gears be steel or plastic? Made sure the materials are specified on every working drawing?



Prepared a parts list, including ready-made components and materials that will have to be made into components? (Include screws, adhesive, oil, etc.)



TECHNOLOGY STUDY FILE 1

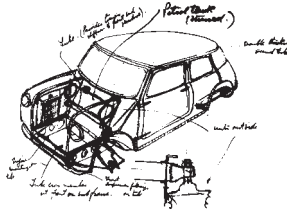
Numbered the drawings and prepared a drawing list? (Include the parts list in the drawing list as if it were a drawing.)



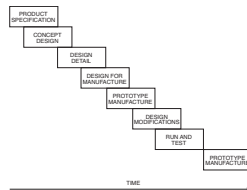
Shown your drawings to a friend or teacher and asked for comments? (In industry, this would be called a quality assurance review of the design.)



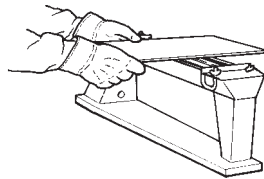
Made any suggested changes that would improve the quality of the design? (If you are short of time, make only the most important changes.)



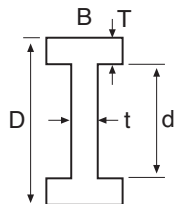
Planned what you are going to do? Noted down how long you think it will take you to make each part?



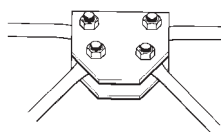
Made each part and put the parts you made into a bag clearly labelled with your name so they do not get lost?



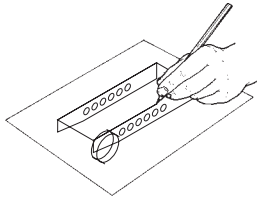
Measured important dimensions, hole sizes, etc. and recorded on paper? Noted down whether the dimensions are within the design tolerances on your drawing?



Assembled your product and noted down any changes you have to make to get things to fit together?



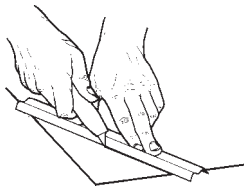
Changed the drawings as necessary, making sure you also change the number of the drawing?



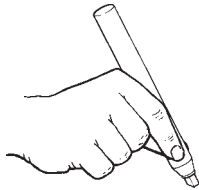
Checked the product functions correctly and if possible measure movement and forces? Checked that your product is safe?



Made improvements to the design or added additional features?



If your product is produced in quantity, devised suitable tests and written down the procedure that should be followed?



Reviewed the success of your designing and making? Compared the time you thought it would take with the time it actually took?

