

D&T	Investigate	Design	Make	Evaluate
Beginning	A simple statement of intent based on some research. A simple list specification. Some links made between research and design needs.	At least one solution to the design criteria are communicated Some annotation is used to record basic features. Technical knowledge of all materials and processes needed is recorded with teacher guidance. Chosen design shows material requirements with teacher guidance.	The selection of materials and components are chosen with teacher guidance. Basic making skills shown with guidance in the selection of tools and techniques. Safe working practice for self and others with guidance. The product is mainly complete.	A basic statement of what went well throughout the design & manufacture process. A basic statement of what could be improved.
Developing	A statement of intent based on at least one source of research. A specification list with some measurable points. End user and what the product is intended to do are identified. Design criteria reflects some of the research undertaken.	At least two solutions to the design criteria are communicated and annotated. Design ideas show some development meet most of the requirements of the specification. Technical knowledge of most materials and processes needed is recorded with teacher guidance. Chosen design shows calculations to determine material quantities with teacher guidance.	The selection of materials and components are chosen with teacher guidance. An understanding of some of the properties of materials selected is demonstrated. Basic making skills shown with guidance in the selection of tools and techniques. Safe working practice for self and others with guidance. The product is mainly complete and meets some of the user needs and design specification. Some accuracy has been achieved in the manufacture of the product.	Comments on the final design are more developed & contain some reflective details. Suggestions for what might be improved are suitable. Testing completed or third party comments.
Secure	Demonstrates an understanding of the design context, based on research from one source. Design criteria reflects the research undertaken. The user and some of their requirements are identified and reflected in the design brief. Specification points are mostly measurable. Performance requirements are identified.	At least two alternative solutions to the design criteria are communicated and annotated. Design ideas are developed to meet most of the requirements of the specification. Technical knowledge of most materials and processes needed is demonstrated with teacher guidance. Chosen design shows an attempt at calculations to determine material quantities. Feedback from others is recorded.	The selection of materials and components are appropriate and chosen with teacher guidance. An understanding of some of the properties of materials selected is demonstrated. Basic making skills shown with some independence in the selection of tools and techniques. Good degree of safe working practice for self and others. The product functions adequately and meets some of the user needs and design specification. Some accuracy has been achieved in the manufacture of the product.	Evaluative comments made about the final product & the manufacturing process. Reference is made to some specification points. Suggestions for what might be improved are sensible & drawn from feedback through testing or third party comments.
Confident	Demonstrates an understanding of the design context, based on research from more than one source. Design criteria reflects the research undertaken & some are justified. The user needs and wants are identified. Design brief outlines some of the user needs and wants. Some specification points are realistic and measurable. Performance requirements are identified.	A range of solutions to the design criteria communicated. Clear and detailed annotation. Design ideas are developed to meet most of the requirements of the specification. Technical knowledge of some materials and processes needed is demonstrated with teacher guidance. Chosen design shows calculations to determine material quantities. Feedback from others is recorded.	The selection of materials and components are appropriate and chosen with some teacher guidance. An understanding of most of the properties of materials selected is demonstrated. Good making skills shown with some independence in the selection of tools and techniques. Good degree of safe working practice for self and others. A functioning product that meets users' needs and design specification. Accuracy has been considered in the manufacture of the product.	Testing & evaluation of the final product evident. Some reflective & balanced comments on both the final product & the making process. Suggestions for improvements are sensible & justified through testing and third party feedback. Majority of specification points have been addressed & comments are evaluative.
Exceptional	Demonstrates a fair understanding of the design context, based on research from more than one source. Design criteria reflects the research undertaken & most are justified. The user needs and wants are mostly justified. Design brief outlines most of the user needs and wants. Specification points are mostly realistic and some are measurable. Performance requirements are identified.	A range of creative solutions to the design brief & criteria clearly communicated. Clear and detailed annotation. Design ideas are developed and refined to meet most of the requirements of the specification. Technical knowledge of most materials and processes needed is demonstrated. Research is used during the developmental process. Chosen design shows calculations to determine material quantities. Feedback from others is sought and made use of at some level.	The selection of materials and components are appropriate. An understanding of the properties of materials is demonstrated. Good making skills shown with mostly independent selection of tools and techniques. High degree of safe working practice for self and others. A functioning product that meets users' needs and design specification. A good level of accuracy is demonstrated.	Detailed testing & evaluation of the final product. Evaluation has led to some adaptations in the design. Comments are largely reflective & balanced. Third party testing has been used & the feedback recorded. Majority of specification points addressed with evaluative comments and some suggestions for improvements & modifications. Conclusions have been made.
Beyond	Demonstrates a good understanding of the design context, based on research from a variety of sources. Design criteria reflects the research undertaken & is justified. The user needs and wants are justified. Design brief outlines user needs and wants. Specification points are realistic and mostly measurable. Performance requirements are justified.	A wide range of unique and creative solutions to the design brief & criteria clearly communicated. Clear and detailed annotation. Design ideas are developed and refined to meet the requirements of the specification. Technical knowledge of the materials and processes needed is demonstrated. Research is used to inform developmental changes. Chosen design shows calculations to determine material quantities. Refinement of designs makes reference to feedback from others.	The selection of materials and components are fully appropriate. A sound understanding of the properties of materials is shown. Very good making skills shown with mostly independent selection of tools and techniques. High degree of safe working practice for self and others. A fully functioning product that meets users' needs and design specification. A high level of accuracy is demonstrated.	Detailed testing & evaluation of the final product. Evaluation has led to evident adaptations in the design. Comments are largely reflective & balanced. Third party testing has been used & the feedback recorded. Evaluative comments based on the specification. Majority of specification points addressed. Suggestions for improvements & modifications are developed & justified. Conclusions have been made.