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| Unit / topic | Working towards the skills and knowledge needed | Acquiring the skills and knowledge needed | On track with the skills and knowledge needed | Advancing the skills and knowledge needed | Extending the skills and knowledge needed |
|  | **Designing** Can produce quite detailed-annotated sketches in order to communicate aspects of designs.  Does understand that the design should meet a range of different needs / different target market.  Has ability to present their work to a group.  Can use models to test their ideas.  Is able to evaluate and understand in order to suggest improvements to their outcome. | **Designing** Can generate labelled sketches that are based upon selected research.  Can choose useful and relevant research material.  Take users views into account.  Uses a variety of technical language when annotating work.  Is aware of constraints without very little prompting from teacher.  Produces models that show what the final product could look like.  Identifies what is working well and what could be improved. | **Designing** Can use primary sources of information.  Investigates and understands similar products in some depth.  Takes users views into account. Can use variety of designing techniques using technical language to explain. Tests and evaluates their work in order to find out if it meets user’s needs.  Identifies what has worked well and what could be improved. | **Designing** Selects own sources for research.  Can write fairly detailed comments about existing products.  Is able to present designs to a target market.  Can use variety of designing techniques using technical language to explain.  Tests and evaluates their work in order to find out if it meets user’s needs.  Suggests improvements that could be made and uses drawings to explain. | **Designing**  Primary research sources used with detailed analysis of existing products and possible target markets.  Target markets used to help evaluate design ideas.  Can use variety of designing techniques using technical language to explain accurately.  Ideas are modelled and tested before production.  Changes made in the light of improvements to designs.  Accurate drawing created using a variety of methods – 2d/3d and CAD.  Evaluations are detailed and reflective. |
|  | **Making** Can show a plan of work with some assistance.  Has ability to choose correct equipment and materials with some support.  Can use tools and equipment safely and takes greater care and attention with regards to accuracy when cutting out and shaping materials. | **Making** Can produce step by step plans showing order of construction with some support.  Uses a range of materials and components.  Uses techniques that ensure that work is well finished.  Manages time well so that products are fully completed. | **Making** Shows excellent precision/accuracy when using equipment, tools, machinery and materials. Is able to show that quality control is taking place.  Time plans do take into account the resources available. | **Making** Can choose and use a range of equipment independently and safely.  Understands how to work accurately.  Makes excellent use of quality control.  Uses a time plan to ensure work is completed to a deadline. | **Making**  Wide range of equipment selected and used with a good degree of independence. Able to work safely with minimal guidance.  Understands how to work accurately.  Makes excellent use of quality control. High quality products evident. |