

		Design Skills	Practical Making	Evaluation	Technical Knowledge
B1	Bronze	I can make a simple collection of materials related to my ideas.	I can use a simple tool with support i.e. pair of scissors.	I can point to a product I like from a choice of two.	I can point to a wooden/plastic or metal product from a choice of two.
	Silver	I can use drawings to record my observations.	I can use a simple tool independently.	I can point to a product I like from a range of objects.	I can point to the common product that uses electricity.
	Gold	I can communicate my ideas through drawings and/or discussion.	I can choose from two simple tools to perform a simple practical task i.e. scissors or ruler.	I can say what I like about a product.	I know the purpose of a common product.
B2	Bronze	I can generate an idea from a starting point.	I can cut a straight line using scissors.	I can say what I like about a product and why.	I can name one material used in a common product.
	Silver	I can develop an idea through talking, drawing and/or mock ups.	I can use rulers and scissors to draw and cut a straight line with support.	I can say what I think and/or feel about a product.	I can name more than one material used in a common product.
	Gold	I can design a purposeful product for myself and/or others.	I can use rulers and scissors to draw and cut a straight line independently.	I can consider the views of others to improve my work.	I can name all the materials used in a common product.
B3	Bronze	I can design one functional product based on knowledge of existing products.	I can choose the correct tool from a range to perform a practical task.	I can suggest one improvement to my own work.	I can explore the use of mechanisms in products e.g. levers, sliders and axels.
	Silver	I can design one functional product using a set design criteria with help.	I can choose the correct tool and correct construction material from a range.	I can review the work of my peers.	I can describe how a simple mechanism works.
	Gold	I can design one functional product using a set design criteria independently.	I can use the correct tools and materials to successfully join.	I can explore a range of materials and evaluate the usefulness of their properties for a particular project.	I can describe and draw a simple mechanism.
B4	Bronze	With support I can use research and develop a set design criteria to inform the design of my product.	I can use the correct tools to mark and cut resistant materials e.g. wood, plastic, and metal with support.	I can identify which parts of a product work well.	I can build a simple structure and explore how to make it stronger, stiffer and more stable.
	Silver	I can independently use	I can use the correct tools to	I can identify which parts of a	I can build a more complex

		research and develop a set design criteria to inform the design of my product.	mark and cut resistant materials e.g. wood, plastic, and metal independently.	product worked well and which could be improved.	structure and explore how to make it stronger, stiffer and more stable.
	Gold	I can use research and develop a set design criteria to inform the design of products aimed at particular individuals or groups.	I can use the correct tools to mark and cut resistant materials e.g. wood, plastic, and metal producing a good finish.	I can suggest ways to improve a product.	I can build a complex structure and apply my knowledge to make it stronger, stiffer and more stable.
B5	Bronze	I can generate ideas and describe by using words, labelled sketches and models to communicate the details of the ideas.	I can produce a functional and purposeful finished product.	I can investigate and analyse a range of existing products.	I can make a simple mechanism to use in my product i.e. an axle and wheels
	Silver	With support I can develop, model and communicate my ideas through more than one way (e.g. discussion, diagrams, annotated sketches etc.)	I can produce an appealing finished product.	I can evaluate my own work against a set of design criteria.	I can make a more complex mechanism to use in my structure such as gears.
	Gold	I can independently develop, model and communicate my ideas through more than one way (e.g. discussion, diagrams, annotated sketches etc.)	I can produce a good quality finished product.	I can evaluate my own work against a set of design criteria suggesting improvements.	I can use and understand complex mechanisms in my products.
B6	Bronze	I can generate detailed design sketches/drawings/ prototypes.	I can follow my plans and use tools correctly, paying attention to the quality of the finished product.	I can evaluate my own work and carry out improvements to make a better product.	I can use simple electrical systems in my products.
	Silver	I can generate detailed design sketches/drawings/ prototypes, using research to influence design ideas.	I can follow my plans and use tools accurately, and ensure a quality finish.	I can make ongoing modifications to my work based on evaluation.	I can use more complex electrical systems in my products.
	Gold	I can generate detailed design sketches/drawings/	I can work from my own detailed plans and use tools	I can make ongoing modifications to my work	I can use and understand complex electrical systems in

		prototypes, using research to influence design ideas and present my ideas to others.	with precision, producing high quality products.	based on evaluation and gain technical information from examining, describing and evaluating similar products.	my products.
C1	Bronze	I can use research to identify and understand user needs to inform my design.	I can carry out one specialist technique (with support) e.g. finger joints.	I can explain why materials and components have been used.	I can use ICT software to enhance the quality of work.
	Silver	I can explore different materials, components and use technical information to decide if they are suitable for the final product.	I can carry out one specialist technique independently.	I can explain why materials and components have been used with detail.	I can identify, explain & explore appropriate equipment, materials, components and techniques.
	Gold	I can Model ideas by using 3d models or using ICT design software.	I can carry out one specialist technique independently and produce a high quality, well considered final product.	I can identify and justify any changes from the final design idea to the final product.	I can understand the characteristics of different materials, components and processes.
C2	Bronze	I can generate a wide range of well explained and justified ideas.	I can carry out all tasks accurately and with precision.	I can suggest alternative materials and components.	I can understand a range of advanced/specialist techniques.
	Silver	I can write a specification and explain choices made.	I can work independently and find solutions to design & practical problems.	I can evaluate my ideas and products against a specification, taking into account the views of intended users.	I have a broad knowledge of different materials, components and processes.
	Gold	I can use a variety of approaches (for example user-centred design) to generate creative ideas and avoid stereotypical responses.	I can carry out a range of specialist techniques independently.	I can carry out investigations /tests /experiments to evaluate final product.	I can independently explore subject specific tasks.