KS3 Braunton Academy Technology Department Mastery Statements.

	Emerging	Developing	Secure	Extending	Mastering
DESIGN	I can collect a small range of research from one source and add labels. I can draw simple 2D sketches that convey my basic concept.	I can collect a range of research and label different elements to identify why I have selected them. I can draw simple 2D sketches that convey several variations on the design brief. I can add basic labels.	I can collect a good range of research from different sources and add simple analytical comments. I can create 2D & 3D sketches and models. I can present them with some accuracy and annotate them to reflect the key parts of the design brief.	I can present research from a range of sources and add comments to show more detailed analytical thought. I can create 3D sketches and models and present them clearly and with general accuracy. My designs show originality. Reference to design criteria is made through the annotation and shows reflection of the target user's needs.	I can present a range of research from a variety of sources . My analytical comments reflect the needs of my primary user. I can create original, accurate 3D sketches that demonstrate a range of ideas. Analytical notes reflect the key elements of the design criteria with particular reference to the primary user.
MAKE	I can show some evidence of planning, I can choose the correct tools, e.g knives and equipment, e.g chopping board and use them to cut and shape materials e.g vegetables and put together components, e.g making soup with the vegetables. I will need regular help to complete my work.	I can show some forward planning with a simple order of work. I can select and work with a range of tools, e.g suitable knives for the food I am cutting and equipment. I can work with some accuracy, (detailed and regular shapes) but will need some help.	I can create a step by step plan, e.g a time plan & follow it. I can make a product with little help using a range of tools, materials, ingredients, equipment, components and processes. I can show some precision in my making.	I can create a detailed step by step plan e.g a time plan and follow it. I will have included some suggestion of alternative plans in my planning in the event of my original plans not working out. I can work efficiently in lessons using a range of tools, materials, ingredients, equipment and processes. I can manufacture most of the product without help. My product is made with accurately.	I can create a detailed step by step plan and follow it. I will have included with some suggestion of alternative plans , in the event that original plans don't work out. I can work independently with a range of tools, materials, equipment, components, and processes, taking full account of the characteristics. I can work safely, efficiently and with a good degree of accuracy.
EVALUATE	I can identify what I am pleased with. I am able to suggest some improvements..	I can reflect on the design as it develops. I can list likes and dislikes about my designs and the product.	I can test and evaluate products showing an understanding of how the product will be used. I can suggest a number of improvements.	I can evaluate how I have used my research and how effective my product has been when used. I can use the specification to show how the product meets the needs of the user. I can explain why any future improvements would benefit the user.	I can use my specification and design brief to explain in detail why my product is suitable for the primary user. I can suggest improvements using sketches and notes. I ask a number of people to test my product.
TECHNICAL KNOWLEGE	I understand the basics of why certain materials & ingredients are suitable for different purposes. And can apply some of it to create my own designs. I can explain the meanings of some of the key words from my current project.	I understand some of the reasons why certain materials & ingredients are suitable for different purposes. I can apply some of my knowledge to create my own designs.	I can understand how to use different materials & ingredients to create products that comply with the design brief. I can apply the principles & properties of materials when making some decisions about the products I make.	I can understand and use the properties of materials to create functioning products that fulfil the design brief. I can confidently apply this knowledge to different design scenarios.	I can understand and use the properties of materials & ingredients to create functioning solutions to design problems. I can skilfully apply this knowledge to different design scenarios and fully justify all design decisions.