Technology

GRADE		DESCRIPTION
9 **Investigating / research** **Designing** **Making** **Analysing & evaluating**	Mastering Secure Developing	I consider primary, secondary and tertiary users in my research I can thoroughly analyse all the research and fully explain how it will impact on my designing I can write a design specification which fully reflects the findings of my research and leads to a detailed list of success criteria I consider primary and secondary users in my research and use this to support my designing I have a clear understanding of the impact on society including economic and social effects My ideas show evidence of allowing for cultural differences where appropriate My design work directly connects to my specification My ideas are clear, concise and imaginative, and directly relate to the brief I have considered the 'fitness for purpose' of my ideas when deciding which idea(s) to take forward for development I can produce a variety of 2D and 3D creative ideas/models which reflect my design brief and most of my design specification I can produce a variety of 2D and 3D creative ideas/models which reflect my design brief and all of my design specification My decision-making is based on sound knowledge gained from my research - in particular physical properties and working characteristics My ideas show some technical understanding of the properties of my materials and components which is drawn from my research and analysis I can evaluate my idea using my specification to say what I can do to improve my idea further to ensure it is fit for purpose I can consider the primary and secondary users when evaluating to ensure they are fully catered for I can use a wide range of research and information to help design, improve and develop my chosen idea I understand the form and function of several familiar products whilst developing and modelling my ideas so that they are realistic and suitable for a range of users I can use a range of strategies to fully develop and model appropriate ideas, responding to information I have found I can resolve any problems using drawings or modelling techniques and state what I have learnt from the modelling My final development shows all final details including dimensions, materials, colour, images and processes, and meets all of my specification points I can work very independently throughout the practical work I can make a product which is rigorous and demanding in its range of skill I can select and use a range of tools and equipment accurately, skilfully and safely I can make a product which has an outstanding, shop-quality level of accuracy in its making and finishing I can suggest alternative ways to make my product throughout the making process to ensure that a quality product is produced and record this will images and text I can clearly relate my evaluation and findings to current environmental, ethical, social and cultural issues where relevant I can use existing products to justify my choices and confirm their suitability for the designated task I can identify a broad range of criteria for evaluating my product

Technology

8	Mastering	My research analysis shows clear understanding of production processes which would be used in the industry
		My research analysis clearly shows trends and patterns in the design of similar products and of other designers
Investigating / research		I can write a design specification which fully reflects the findings of my research and leads to a detailed list of success criteria
		I can apply the conclusions from my research and analysis to show how my ideas better fit the market
	Secure	I have a general understanding of the impact on society including economic and social effects.
		My ideas show evidence of allowing for cultural differences where appropriate
Designing		My design work directly connects to my specification
		My ideas are clear, concise and imaginative, and directly relate to the brief
	Developing	I have considered the 'fitness for purpose' of my ideas when deciding which idea(s) to take forward for development
Making		I can produce a variety of 2D and 3D creative ideas/models which reflect my design brief and most of my design specification
		I can produce a variety of 2D and 3D creative ideas/models which reflect my design brief and all of my design specification
Analysing & evaluating		My ideas show some technical understanding of the properties of my materials, components and constraints which is drawn from my research and analysis
		I can evaluate my idea using my specification to say what I can do to improve my idea further to ensure it is fit for purpose
		I can consider the primary users when evaluating to ensure that they are fully catered for
		I can consider the primary and secondary users when evaluating to ensure they are fully catered for
		I can design and develop ideas by using a variety of information sources
		I can draw on and use many sources of information to creatively develop my ideas
		I understand the form and function of familiar products whilst developing and modelling my ideas with full annotation
		I can use a wide range of research and information to help design, improve and develop my chosen idea
		I understand the form and function of several familiar products whilst developing and modelling my ideas so that they are realistic and suitable for a range of users
		I can use a range of strategies to fully develop and model appropriate ideas, responding to information I have found
		I can explain how my developed design meets the specification
		I can work independently during my practical work
		I can make a product which has a very high level of making and finishing
		I can make a product which is rigorous and demanding in its range of skill
		I can select and use a range of tools and equipment accurately, skilfully and safely
		I can apply quality checks throughout the making process to ensure that a quality product is produced and record this
		I can clearly relate my evaluation and findings to current environmental, ethical, social and cultural issues where relevant

		I can use existing products to justify my choices and confirm their suitability for the designated task
		I can explain fully in writing how my product can be changed to improve it further
		I can use the researched facts on materials to enhance my evaluation
7 **Key Words:** **Investigating / research** **Designing** **Making** **Analysing & evaluating**	Mastering Secure Developing	I can analyse my research with regard to aesthetic and economic issues, and apply this analysis to my design work My research analysis shows clear understanding of production processes which would be used in industry I can write a design specification which identifies most key aspects needed to develop a range of design ideas I can gather user opinions through a simple survey that will provide specific information to improve my design work My ideas show evidence of allowing for cultural differences where appropriate My design work directly connects to my specification My ideas are clear, concise and imaginative, and directly relate to the brief I have considered the 'fitness for purpose' of my ideas when deciding which idea(s) to take forward for development I can produce a variety of 2D and 3D creative ideas/models which reflect my design brief and most of my design specification My ideas show some technical understanding of the properties of my proposed materials, which is based on my research and analysis I can evaluate my idea using my specification to say what I can do to improve my idea further to ensure it is fit for purpose I can consider the primary users when evaluating to ensure that they are fully catered for I am aware of possible problems with my designs and explain how I might overcome them I can design and develop ideas by using a variety of information sources I can draw on and use many sources of information to creatively develop my ideas I understand the form and function of familiar products whilst developing and modelling my ideas with full annotation I can use a wide range of research and information to help design, improve and develop my chosen idea My ideas and developments are dully discussed against the specification to help decide on an idea to develop I can work mainly independently during my practical work I can make a product which has a a high level of making and finishing I can make a product which is demanding in its range of skills I can apply quality checks to the practical work to make sure that it is well made I can use my specification to base my reflection on and suggest modifications I can select appropriate techniques to evaluate how successful a product is I can explain in writing whether a product has been successful or not I can comment on the costs of my product

6	Mastering	My research shows a link to my brief and gives me some important technical information for my specification e.g. colours, materials, fonts, layout, production method etc.
Investigating / research		My research shows evidence of analysis of form and function of similar/familiar products (other designers' work)
		I can write a design specification which identifies some key aspects needed to develop a range of design ideas
		I can produce a minimum of one A4 page of analysis that is descriptive and draws helpful conclusions related to the design task and use them in my designing
Designing	Secure	I can produce an appropriate model to show some of my design ideas
		My ideas show evidence of allowing for cultural differences where appropriate
		My design work directly connects to my specification
		My ideas are clear, concise and imaginative, and directly relate to the brief
Making		I can produce a variety of creative ideas linked to my research and analysis
	Developing	I can evaluate my idea using my specification to say what I can do to improve my idea further to ensure it is fit for purpose
		I can consider the primary users when evaluating to ensure that they are fully catered for
		My development work uses a mixture of sketches and labels to show information about materials, sizes, how it works and who it is for
Analysing & evaluating		I am aware of possible problems with my designs and explain how I might overcome them
		I can design and develop ideas by using a variety of information sources
		I can draw on and use many sources of information to creatively develop my ideas
		I can annotate my development referring to the specification
		I can work with some independence during my practical work
		I can make a product which has a a good level of demand in some parts
		I can make a product which has a very good level of making
		I can apply quality checks during the making of my product
		I can evaluate using research to explain the success of my product
		I can use other peoples' comments to evaluate my product
		I can say what I need to make changes to and how I might implement those changes
		I can explain in writing whether a product has been successful or not

Technology

5	Mastering	I can show evidence of research from two sources independently e.g. internet, magazines, books, surveys etc.
Investigating / research		I can analyse my research with regard to aesthetic and economic issues, and apply this analysis to my design work
		I can write a design specification which reflects most of the findings of my research
		I can use ideas from other designers to help me in my work
		I can produce an appropriate model to show some of my design ideas
		My ideas show evidence of allowing for cultural differences where appropriate
Designing	Secure	My design work directly connects to my specification
		I can write about my ideas and explain my reason for decisions which is based on my research conclusions
		I can evaluate my ideas using my specification to say what I can do to improve my idea further
		My development work uses a mixture of sketches and labels to show information about materials, sizes, how it works and who it is for
Making	Developing	I am aware of possible problems with my designs and explain how I might overcome them
		I can design and develop ideas by using a variety of information sources
		I can make ideas/developments clear using drawings, discussion and modelling, showing an understanding of costs and peoples' tastes
Analysing & evaluating		I can use tools correctly and safely
		I can make a product which has a good level of making
		I can identify quality check stages in my work before I make it
		I can describe my product using comments from other people
		I can compare my product to existing products
		I can use my specification to discuss some improvement point for my product

Technology

4		
Investigating / research	**Mastering**	I can use ideas from other designers to help me in my work
		I am able to explain how I could use the designer style in my project
		I can write a design specification which reflects two aspects of my research
		I can sue simple research data in my design work e.g. materials, information, sizes etc.
Designing	**Secure**	I can use simple modelling to show my ideas
		I can draw two/three ideas with basic labels, which relate to the brief using at least two recognised drawing techniques
		I can talk about my ideas with my teacher
		I can evaluate my idea using my specification to say what is good and bad about it
		I can develop different ideas using some information and research that I have found
Making	**Developing**	My development work uses a mixture of sketches and labels to show information about materials, sizes, how it works and who it is for
		I am aware of possible problems with my designs and explain how I might overcome them
		My development uses a mixture of sketches and labels to tell the teacher about the materials and sizes
		I can use tools and equipment correctly and safely most of the time
		I can make a product which has a basic level of making
Analysing & evaluating		I can identify at least two quality checks for my practical work
		I can make some simple suggestions for changes to the product next time
		I can use the comments of others to help me evaluate my product fully
		I can say what was said by others about my product

FEARNHILL SCHOOL

3	Mastering	I can find images of existing products and other simple information beyond the classroom
Investigating / research		I am able to explain how the images I have sourced could be used in my design
		I can write a design specification which reflects my research
		I can sue multiple images to help support my design
		I can show a variety of different ideas that cater for different peoples' likes and tastes, with some reference to my research
		I can talk about my ideas with my teacher and explain the reason behind the design
Designing	Secure	I can draw inspiration for creativity from my existing product's research
		I can use colour/ texture to make my ideas look realistic
		I can talk about my ideas with my teacher and explain the reasons behind the design
Making		I can develop different ideas using some information and research that I have found
		I can tell the teacher something good or bad about my development
	Developing	I can use tools and equipment correctly and safely some of the time
		I can make a product which is mainly finished and uses two or more skills
		I can identify one quality check for my practical work
Analysing & evaluating		I can identify what is working well and what can be improved
		I can identify all of the good or bad points about my product
		I can identify a way of making my work look and work better

2	Mastering	I can find images which are relevant to my task
Key Words:		I can write good and bad points about images that are relevant to my task
		I can write a basic list which helps my design
Investigating / research		I can use m research images to create a design solution
		I can draw two ideas which relate to the design brief
		I can use simple information to add detail to my idea e.g. sample sizes, materials etc.
		I can use colour to show realistic images of my ideas
Designing	Secure	I can identify and write down good or bad points of a design
		I can develop some ideas using colour rendering
		I can suggest what my idea could be made from and why
		I can use tools and equipment with supervision
Making		I can make a product which has some accuracy in parts
		I can make a product which is mostly finished and uses at least one skill
	Developing	I can identify one quality check for my practical work
		I can say what was hard about making my product with some help
Analysing & evaluating		I can say if I was successful or unsuccessful
		I can identify some of the good or bad points about my work

Technology

1 **Key Words** Investigating / research Designing Making Analysing & evaluating	**Mastering** (green) **Secure** (yellow) **Developing** (red)	I can find some pictures for my project I can write one good and one bad point about each of the pictures that I have collected I can explain what my design must have and might have I can use my researched image in my design I can draw one idea related to the design brief using a recognised drawing technique I can use simple information to add detail to my idea e.g. sample sizes, materials etc. I can colour my idea I can identify a good or bad point about my design I can develop one or two ideas using colour to make them look realistic I can, with help, choose and use tools and equipment I have not conducted any quality checks during the manufacture of my product I can talk about what has gone well during the process of making my product I can answer questions about how to improve my idea I can use some describing words to say what my product is like