STEPS TO SUCCESS FOR KEY STAGE 3.......
DESIGN & TECHNOLOGY

STEPS	STRAND 1 Research	STRAND 2 Designing	STRAND 3 Making	STRAND 4 Evaluating	EOKS4 Estimat
9	**All of the below and …** Can explore self-guided research in their design that leads to a greater understanding than expected in school. Such as independent visits to galleries or exploring the wider context of the brief.	**All of the below and …** Can create designs that solve interesting and complex design problems. Can draw to an exceptional standard with a high level of detail showing construction methods such as with exploded views.	**All of the below and …** Can create complicated work that utilises advanced techniques (including CAD/ CAM) in realising design intentions. Can independently learn new techniques and use these in their design with skill.	**All of the below and …** Can write detailed evaluations that include client feedback, this is used to clearly identify issues and feedback into the iterative design process with improvements. The product developments have been researched or drawn. Can create a finished design that fully meets the needs of the user and could be a commercially viable product.	9
8	**All the below and …** • Can understand issue that relate to products and the environment, these issues are astutely understood. • Can complete a specification that is supported by justified reasons.	**All the below and …** • Can display clear use of an iterative design process that has led to a well-designed functional final piece. • Can draw designs in detail, showing measurements, materials, quantities and finishes. • Can draw creative designs that are rendered with an exceptional ability to resemble real materials.	**All the below and …** • Can make considered material choices that show excellent knowledge of materials and their functional properties. Can complete work with a high level of quality control evident in the prototype. Can independently select the appropriate tools and materials and use these with a high level of skill.	**All the below and …** • Can show a clear understanding of the role as a designer in creating a product that meets the user's needs. • Can create detailed criteria on improvements that could be made to the design if created again and demonstrates a good understanding of the iterative design process.	8
7	**All the below and …** • Can create detailed relevant research into designers and design movements. • Can create a specification that shows a clear understanding of the design brief and allows for creativity in the design. • Can produce primary research that has been carried out to inform design ideas.	**All the below and …** • Can develop design ideas that make strong links with previous research and this is reflected in the design. • Can develop a final piece that has a unique feature from the rest of the class. • Can communicate design ideas clearly and these are rendered neatly.	**All the below and …** • Can use knowledge of finishing techniques to independently select an appropriate finish. • Can make justified material choices that show clear links with previous research. • Can use tools and machinery with skill and follow the instructions independently.	**All the below and …** • Can competently express the products impact on the environment and this is discussed in the evaluation. • Can conduct relevant tests and evaluate the design against their own specification.	7
6	**All the below and …** • Can carefully conduct research into existing products with personal written analysis and evaluations, such as completing an ACCESS FM analysis. Can write a specification that is clearly links to research and the needs and wants of the user.	**All the below and …** • Can develop design ideas using many different methods such as 2-point perspective and isometric paper. • Can evaluate the designs against the specification.	**All the below and …** • Can make some considered material choices that reflect the research and knowledge of material properties. • Can use tools and machinery with skill and follow most instructions independently to create a good working prototype. • Can apply an appropriate finish with guidance.	**All the below and …** • Can conduct basic tests on the final design and demonstrate some understanding of the iterative design process with clear strategies of how the design can be improved. • Can clearly show that the specification has been relevant to the final product.	6
5	**All the below and …** • Can conduct clear research into existing products and design movement that is relevant to the brief. • Can develop a specification that is considered including details about materials. • Can conduct research that informs the design and shows an attempt at meeting the wants of the user.	**All the below and …** • Can add material labels and evaluations that link to previous research. • Can draw to a satisfactory standard using tone, colour and shading to present ideas.	**All the below and …** • Can create practical work that is mostly accurate with some ability to work independently. • Can independently select and name the appropriate tools following demonstrations and use some of these with skill. • Can Apply knowledge of mechanisms, levers and Cams in designs where appropriate.	**All the below and …** • Can evaluate the designs, making clear links with research and specification. • Can evaluate how well the design meets the specification and how appropriate it is for the user.	5
4	**All the below and …** • Can complete relevant research into products and designers that is connected to the product. • Can conduct a basic product analysis of an existing product. • Can produce a specification that shows some influence from the research.	**All the below and …** • Can produce designs that show some variation and a level of creativity. • Can communicate ideas with some rendering and tone. • Can draw some ideas in 2-point perspective.	**All the below and …** • Can complete practical work with some areas of skill. • Can name the materials used in the project with some understanding of the materials properties. Can select the correct tools with guidance and use these with an adequate level of skill.	**All the below and …** • Can make simple links with the research to evaluate the final design with a limited personal response. • Can state some good product development ideas.	4
3	**All the below and …**	**All the below and …**	**All the below and …**	**All the below and …**	3

	• Can conduct limited but relevant research, such as research into a designer • Can make simple links with the research and the design specification.	• can produce a limited number of different designs. • Can produce ideas that are superficially informed by the research. • Can attempt to draw in 2-point perspective.	• can select the appropriate tools with guidance and use these with limited skill. • can name the tools and materials used in the project. • Can follow the workshop safety rules and adhere to these rules.	• Can complete a simple evaluation with limited improvements of the product and Can explain how the design is suitable for the target market or user.	
2	**All the below and …** • Can produce a simple specification that is relevant to the target market. • Can gather images of other products or designers work from the internet with no written analysis.	**All the below and …** • Can produce some simple and repetitive ideas with some links to the research. • Can add some colour to ideas but have little use of tone or shading. • Can produce design ideas that are drawn in 1 point perspective.	**All the below and …** • Can complete practical work with minimal skill or accuracy. • Can select the tools and equipment needed with guidance and use these with limited skill.	**All the below and …** • Can state what has worked well in the product. • Can make limited suggestions on how to improve.	2
1	**Can …** • Can understand the design brief. • Can create a simple specification.	**Can …** • Can produce some simple designs in 1 point perspective.	**Can …** • Can understand workshop safety rules but needs guidance on machines. • Can select the appropriate tools and equipment for tasks with guidance.	**Can …** • Can state what is good about their product with no mention of improvement.	1