

## PROGRESS IN DESIGN & TECHNOLOGY YEARS 7-11

Grade	Y11	Y10	Y9	Y8	Y7	AO1: Recall, select and communicate knowledge and understanding in design and technology including its wider effects.	AO2: Apply knowledge, understanding and skills in a variety of contexts and in designing and making products.	AO3: Analyse and evaluate products, including their design and production.
<b>9</b>						<b>Top 20% of candidates who achieve grades 7-8</b>		
<b>8</b>						Design possibilities identified and thoroughly explored, directly linked to a contextual challenge demonstrating excellent understanding of the problems/opportunities. Excellent knowledge of tools & Production processes. Excellent 3d sketching & CAD drawing skills.	Imaginative, creative and innovative ideas have been generated, fully avoiding design fixation and with full consideration of functionality, aesthetics and innovation. Excellent use of tools and processes to produce high quality outcome which complies with design context.	Excellent ongoing analysis and evaluation evident throughout the project, investigating existing products and their own ongoing design, that clearly influences the design brief and the design and manufacturing specifications of the subsequent product. Product evaluated through manufacture to incorporate changes as necessary.
<b>7</b>						Design possibilities identified and explored, linked to a contextual challenge demonstrating a good understanding of the problems/opportunities. Good knowledge of tools and production processes. Good 3d sketching and CAD modelling skills.	Imaginative and creative ideas have been generated which mainly avoid design fixation and have adequate consideration of functionality, aesthetics and innovation. Good use of tools and processes to produce high quality outcome which complies with design context.	Ongoing analysis and evaluation evident throughout the project, investigating existing products and their own design, that clearly influences the design brief and the design and manufacturing specifications of the subsequent product. Product evaluated through manufacture to incorporate changes as necessary.
<b>6</b>						Design possibilities identified and explored linked to a contextual challenge showing good knowledge of the problems / opportunities. Generally good knowledge of tools and processes. Good 3d sketching skills basic CAD drawing skills	Creative range of ideas have been generated which have adequate consideration of functionality, aesthetics and innovation. Good use of tools and processes to produce mostly high quality outcome which complies with design context.	Good analysis of existing products, that clearly influences their design brief, design and manufacturing specifications of the subsequent product. Product is evaluated competently throughout manufacture, minor improvements made. Good evaluation at project conclusion.
<b>5</b>						Design possibilities identified and explored with some link to a contextual challenge, demonstrating adequate understanding of the problems/opportunities. Working knowledge of a range of tools and	Small range of ideas have been generated with a degree of design fixation and having some consideration of functionality, aesthetics and innovation. Tools used safely, to a good standard to	Sound analysis of existing products that influences their design brief, design and manufacturing specifications of the subsequent product. Good evaluation at project conclusion.

					processes. Good sketching skills and developing CAD skills	produce a good outcome which complies with most aspects of the brief.	
4					Some design possibilities explored, linked to design context. Student shows appreciation of design problems/ opportunities. Good knowledge of limited range of tools and processes. Drawing skills allow presentation of ideas	Ideas have been generated that take some account of investigations carried out but may lack relevance and/or focus. Tools used safely, to a good standard to produce a good outcome which complies with most aspects of the brief.	Basic analysis of existing products that influences their design and manufacturing specifications of the subsequent product. Good evaluation at project conclusion
3					Simple design ideas presented with reference to design context. Basic comprehension of problems. Basic knowledge of small number of tools and processes. Design presentation skills deliver idea concept, with many inaccuracies.	More than one idea has been generated that take some account of investigations carried, though similar, and may lack relevance and/or focus. Tools used safely, to a basic standard to produce a reasonable outcome which complies with most aspects of the brief.	Basic analysis of existing products, with some reference in specification. Good evaluation at project conclusion
2					Basic design ideas presented, with a basic link to a design context. Student demonstrates only a limited understanding of the problems/opportunities. Working knowledge of small number of tools or processes. Design presentation vague and unclear in many areas.	Basic ideas have been generated with clear design fixation and limited consideration of functionality, aesthetics and innovation. Basic use of tools, safely with supervision.	Basic investigation of one existing product, which has some bearing on design. Reasonable evaluation of final product.
1					Simplistic design ideas presented, with little attention to design problems and little attention to manufacture. Guidance needed with tools and processes. Presentation of idea(s) unclear and not accurate.	Singular idea generated with design fixation and limited consideration of functionality, aesthetics and innovation. Basic use of tools with supervision.	No real investigation of existing products, basic summary of product after manufacture.