**Design & Technology**

**Year 8 – Grade Descriptors AP2**

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| **GRADE** | **Research** | **Design** |
| **8-9** | \* Use a range of strategies to develop appropriate ideas, responding to information I have identified. \* When planning, make decisions on materials and techniques based on my understanding of the physical properties and working characteristics of materials. | \* Identify conflicting demands on my design. \* Explain how my ideas address conflicting demands. \* Analyse the task and specification fully in order to produce proposals. |
| **6-7** | \* Use a wide range of appropriate sources of information to develop my ideas. \* Research possible forms, functions and production techniques for my design. | \* Communicate using a variety of media and techniques eg. models, mock ups, orthographic/isometric/perspective drawings and using ICT eg. ‘2D Design’. \* Consider the needs of a range of users, eg. children aged 3-5, in my specification. \* Produce a fully realistic design. \* Annotate to show that I recognise ‘conflicting’ demands on my designs. |
| **5** | \* Write conclusions from my research and explain how it will help my designing and making. \* Use a range of sources for information and show I understand the making and working of existing products. \* Discuss my design ideas with the end user. | \* Use models and drawings to explore and test my design thinking. \* Produced a detailed specification – which reflects my research and considers users, constraints, resources, form, function, quality etc. \* Compare designs to my specifications, by using annotation. |
| **4** | \* Gather and use research from various sources and evaluate my results. \* Use things I know about existing products when developing my designs. | \* Draw, model and discuss ideas to clarify my thinking. \* Show that I understand limitations (eg. in cost, time and materials) in my specification and annotation. |
| **3** | \* Gather and use research to help me design. \* Specify who will use my design and consider their needs/opinions. \* Specify some of the limitations when designing, eg. time and cost. | \* Show different ideas using words, sketches and models. \* Evaluate and develop my ideas by annotating. \* Produce a step by step plan to help me make. |
| **2** | \* Use my experience, and things I know about products to help me design. \* List things my design needs to do in a specification. \*Write a realistic plan for making. | \* Explain my ideas clearly and in detail. \* Annotate my designs to explain details. \* Use sketches and models to show my ideas. |
| **1** | \* Describe products I know about which are like my design. | \* Draw my own ideas. \* Draw, model and describe my ideas. \* Explain how and why I have chosen to make my design. \* Plan what to do next. |