

KEY STAGE 3 PROGRESS LADDER

SUBJECT: Design Technology



STM STAGE

RESEARCH AND ANALYSIS

SPECIFICATIONS

IDEAS AND DEVELOPMENT

MAKING

1

Show a basic understanding of the design context. Identify a user and consider what others require from your product. Research materials and tools.

Understand that the product must adhere to three areas for it to be successful.

One or two basic ideas are drawn.

The product is mostly complete and a lot of help has been received with the making.

2

Show a good understanding of the design context. Identify a user and what they want from your product. Collect more than one area of research. Analyse an existing product to consider the main features. Basic analysis of research.

Understand how the specification links in the main function and materials.

Design ideas are simple but effective with labels including materials, tools and equipment for the making. It has been explained which tools are best.

Final product is simple and on the whole complete. A lot of guidance has been received when selecting and using tools.

3

Collect research independently from three sources. Analyse and explain reasons for form and function of two similar products.

Show that specifications can reflect the client needs and research giving reasons for each one.

Designs are complex and well drawn and the annotation demonstrates an understanding of aesthetics, form, function including materials, sizes and some manufacturing.

The final product works well and with a couple of adaptations is suitable for the intended market. Appropriate tools have been selected and used with some guidance.

4

Select appropriate research and use it to develop design ideas. Analyse a range of features on similar products. Consider production processes that might be used in industry.

Be able to discuss the needs of a range of people who might use the product. Identify and justify the manufacturing methods.

Designs are complex and highly detailed, clearly reflecting a theme. Annotation shows the manufacturing methods. Design ideas are very well drawn and rendered.

The manufactured product is largely accurate and precise with a good quality finish. Appropriate tools and equipment have been selected and used with limited guidance.

5

Select and analyse a range of relevant sources for research. Analyse the findings in context to the design brief. Consider and justify production processes used in industry and school.

Specifications showing an understanding of techniques, manufacturing and working characteristics of materials reflecting the research and client needs.

Design ideas show consideration for moral and environmental issues. Social issues are considered fitting in with the client and user. Ideas are clearly suitable for the intended user group.

The manufactured product is accurate and precise. The product is detailed with a high quality finish. Appropriate tools have been selected and used safely and independently throughout.