

## **DESIGN & TECHNOLOGY PUPIL LEVEL DESCRIPTORS**

### **LEVEL 1**

Pupils generate ideas using familiar products to help them. Their plans show that, with help, they can put their ideas into practice. They are able to use pictures and words to describe what they want to do. They explain what they are making and which tools they are using. They talk about their work and can describe how what they have made works.

### **LEVEL 2**

Pupils generate ideas and are able to plan what to do next. They use models, sketches and words to describe similar products and develop their own designs. They use tools and materials appropriate to the task. They recognise what they have done well and suggest things that they could do better in the future.

### **LEVEL 3**

Pupils' ideas are clearly developed using notes and sketches to fulfil a particular need. They plan their project such that they can achieve their aim. They use tools and techniques accurately to cut and shape materials. They are able to identify what changes were made, what went well and what could be improved within the product they have produced.

### **LEVEL 4**

Pupils are able to collect information and take into account the opinions of others to help them develop their ideas. Designs are communicated using notes, sketches and models. They can produce a step-by-step plan, identifying the required tools, equipment and techniques to help them achieve their aim. Their completed product is well finished and performs as intended. They can identify what is good about their product and how it could be improved.

### **LEVEL 5**

Pupils are able to use research of familiar products to help them plan and develop their designs through drawing, modelling and discussion. They can generate their own plans and adapt them as work progresses. They work with precision when using tools, equipment and materials. They check their work as it develops and correct errors as they arise. They can realistically evaluate their completed product against their aims and suggest ways and means of improving their outcomes.

### **LEVEL 6**

Pupils can draw conclusions from a range of research and recognise how it will help them with designing their own products. They understand how the product they are designing has to be useful to the people who will use it. Drawings, notes and models are used to explore and test design ideas against pre set criteria. Pupils can plan their work and are able to choose alternative ways of achieving their aims. They have an understanding of a range of tools, materials, equipment, components and processes. Work is constantly checked for errors in order to maintain quality. The final product is tested in use and checked against the specification criteria

### **LEVEL 7**

Pupils are able to use a wide range of research and information to help them develop their design ideas and production techniques. They use a variety of media, including ICT, to communicate their ideas whilst considering the needs of the people who will use their product. Their design ideas are realistic and planning takes into account the time required for the different stages of making. The working properties of materials, tools and processes are understood and applied appropriately. Problems in production are overcome as work progresses. They devise ways of testing and improving their completed product and evaluate what they have made against their specification.

### **LEVEL 8**

Pupils are able to work independently using a range of strategies to develop their ideas and respond to problems they have identified. They are able to analyse the task and make decisions about materials, fully understanding the planning and production techniques involved in manufacturing process. Practical work is carried out with precision. Criteria for evaluating and testing their outcome, including the use of resources, is clearly identified and related to the products intended purpose.