

DESIGN AND TECHNOLOGY

Level 1

Learners explore everyday materials to generate ideas for their projects. They orally describe what they want to do and are guided throughout to make the product in mind. Learners are able to talk about their work and how they made it using simple language.

Level 2

Learners generate ideas and make plans after they handle different materials such as paper, cardboard, textiles and food products and practice different techniques shown by the teacher. They start identifying appropriate tools to work with and are aware on how to handle them safely. Learners are able to demonstrate their work in front of others, talk about it and recognize strengths and weaknesses in the work they produce.

Level 3

Learners are able to generate simple designs using pictures and very simple drawings suitable to meet the needs specified. They are able to plan their work and make a list of the things needed including appropriate tools. Learners are able to transfer the technical skills learnt in one project to another. They become more aware on how to evaluate their work and suggest ways on how to improve it.

Level 4

Learners write a specification with help mentioning some basic requirements. They use free hand sketches and drawings to communicate ideas. They show awareness that materials/ingredients have different properties. They cut, shape and form materials/ingredients to specific tolerances. They know the criteria how to analyse products and processes.

Level 5

Learners generate and record ideas in combination of text and in simple 2D / 3D presentation. They write with help a simple proposed plan. They know and use the appropriate terminology for naming and describing materials, tools, equipment and components. They use safely, accurately and efficiently marking, measuring, cutting and assembling tools. They test and evaluate the product against the specification.

Level 6

They present a chosen idea using appropriate communication media, including graphical and ICT skills. They present a working drawing with some details to enable the manufacture of the product. They develop a suitable work plan. They show that that they can work with various materials showing improvement on their basic skills in shaping them. They carry out appropriate tests before making.

Level 7

Learners produce a specification which reflects the essential features of the design brief. They use tools and equipment to shape and form materials safely and accurately and finish them appropriately. They join and combine materials/ingredients and standard components accurately to achieve functional results. They produce flow charts and work schedules. They test and evaluate the product against specification using subjective and objective criteria.

Level 8

Learners make an appropriate choice of finish to reflect aesthetic and environmental implications. They know about the use of computer integrated manufacture and recognise that computer systems can control machines and equipment. They produce documentation with relevant and clear information that is legible, having the correct spelling and appropriate terminology. They use criteria to judge the quality of a product: how it looks, its performance, its function, the needs and values of end users, safety and value for money. They suggest necessary modifications to the product.