



Design and Technology

Year 7

Focus: Developing designing and researching skills

Aim:

At the start of year 7 pupils complete a baseline assessment. They are set a challenge to design and make a name badge in either card or foam.

During this assessment pupils can demonstrate their ability to research, draw, design, modify ideas, evaluate and make a product.

They are also assessed on their previous knowledge of tools and materials used in the workshop as well as their awareness of health and safety acquired in primary school.

The focus for year 7 DT lessons is for pupils to develop a better understanding of the design process and to become more confident designers and makers.

Year 7's will have at least a term/term and a half completing DT resistant materials on carousel with Food Technology.

For the main project in Resistant Materials pupils design a toy for themselves. This will usually be a puzzle or a kite. The theme will be animals. Depending on the product that they are making they will learn a brief history of how it originated and evaluate some existing products.

Year 7 projects are the first stage on the ladder of gaining an understanding of creating purposeful products for a target audience. Pupils design and make a product that meet own requirements. They develop the skills from the baseline assessment and engage in more challenging activities. Pupils use IPAD's to research online and produce short presentations of their research; they design quality products and start to evaluate own progress. They become more confident in the workshop using a range of hand tools only.

As part of the projects, pupils also investigate wood, metal and plastic and complete some focused practical activities and challenges to further develop specific workshop skills .

Assessment:

Pupils are assessed using P Scales and Colour Oak Lodge Assessment DT levels based on essential knowledge, understanding and skills that all pupils should learn. They are assessed at the start and at the end of the year/term and they progress through RAG rating. They have written and verbal feedback every week on their achievement and effort.

Pupils self-assess own progress to develop a better understanding of their own skills and areas to develop.

Some Useful vocabulary:

Wood, pine, oak, rot, metal, copper, steel, rust, iron, plastic, recycling,

Pencil, ruler, coping, saw, g-cramp, file, sand-paper, paintbrush, varnish, paint, hand-drill, design, research, evaluate, measure.

Websites:

www.50things.org.uk

www.lego.com

www.kids.nationalgeographic.com

www.designmuseum.org/

Parental support:

Talk to your child about choices you make when selecting products. Encourage them to explain why they may prefer one product and not another.