

SUBJECT: Design Technology

YEAR GROUP:7

Overview:

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products throughout the key stage 3 period that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.

In Year 7, pupils investigate the designer Paul Klee and create a front cover based on the concept of six colours in code. Pupils develop their marking out skills and application of three levels of tone. They learn about perspective, health & safety, symmetry, the importance of accuracy, and repeat patterns within their design and practical work. Pupils design and make a portable speaker from scratch. Pupils will learn about the various types of electrical components and will use electronic tools to attach the components to the circuit board.

Design Technology is on a carousel throughout the academic year along with Computer Technology and Food Studies; students spend a term in each area.



PROGRAMME OF STUDY

During the Food Studies rotation students will:

- Learn to apply three levels of tone when shading in design work, what is dot shading and understand how tone is affected by light
- Understand the conversion of centimetres into millimetres
- Understand how symmetry is used within design of architecture and products
- Mark out shapes accurately and apply the correct angles required using the correct tools
- Understand the health and safety precautions when working in the workshop, looking at signage and using tools and equipment safely.
- Use tools correctly, safely and accurately when completing practical work
- Use craft knives safely and
- Who is the designer Paul Klee and develop a front cover name template
- Use a hot glue gun safely and accurately
- Use drawing equipment correctly to complete 1 and 2 point perspective drawings and complete isometric drawing
- Be able to identify basic electronic symbols of electrical components
- Use a soldering iron to attach electrical components to a circuit board safely and correctly identify existing examples

METHOD OF ASSESSMENT

- Completion of a baseline test (at the start of each term)
- Completion of work in individual subject booklet
- Class discussions
- Self and peer marking
- Reviewing knowledge and skills acquired during the term
- Successful outcome of practical work from following step-by-step instructions given by the teacher
- Teacher feedback and self-evaluation of pupils work identifying successes and targets for improvement
- Weekly homework monitoring
- Mid-term and end of term assessments