



Subject: D&T & Cooking & Nutrition Year 8

Overview

Design & Technology works on a rotation where the students rotate between the topics. This means that some will do Cooking & Nutrition in the Autumn term while others will do it in the Spring or Summer term. It is similar for the other topics.

Cooking & Nutrition

Cooking & Nutrition

Students make various recipes using oven and hob.

Students are taught to follow key steps to create various types of food. There is a big focus on independence, perseverance and problem-solving skills in this topic.

Prior learning includes Year 5 & 6 & 7 - Introduction to cutting and preparation techniques. H&S with food preparation. Use of Oven & hob.

Key activities include

- Healthy eating
- Nutrition
- Allergies
- Use of hob, grill and oven
- Adaption of recipes
- Sustainability
- Source of materials
- Advanced cutting & chopping skills
- Blenders & Mixers

Assessment:

All years will be doing an assessment during the term, writing a timeplan and using skills they have learnt to cook their own dish.

Product Design & Mechanisms, Smart materials and understanding construction drawings	Product Design Students use all the skills they have covered in years 5,6 and 7 to make a holder for an electronic device. They have a restricted amount of material to use and must work with the materials available. They also learn about various mechanisms such as gears, cams and pulleys. They experiment with smart materials and learn to follow construction drawings to create a design. Students are taught how to think very creatively and produce their own designs. There is a big focus on teamwork and problem-solving skills in this topic. Prior learning includes - Year 5 & 6 & 7 - Use of hand tools. Working to scale and with templates. Use of acrylic and wood. Measuring and marking out of work. Combining materials to create a final design. Key activities include - Initial design, developing ideas and producing final scaled designs. - Model making. - Using scroll saw & belt sander - Using various hand tools - Quality finish - Use of wood, acrylic and appropriate equipment - Creating pulley systems - Creating gear systems - Using smart materials - Reading construction drawings, marking out material and creating a model.	Assessment: All tasks are assessed live in lesson. Self-assessment/Peer assessment and teacher assessment. Planning will be discussed with the teacher in the lesson and self-assessed.
Textiles	Textiles Students revisit nearly all the key skills and techniques they have covered in previous years. They start the term spending time on various topics including tie dye, batik, paint transfer and then move to making a drawstring bag combining all these skills and skills from previous years. Students are taught how to think very creatively and produce their own designs. There is a big focus on teamwork and problem-solving skills in this topic. Prior learning includes - Year 5 & 6 & 7 - Hand and machine sewing. Planning designs and the cutting materials accurately. Using CAD & CAM products such as the cricut (cutting machine) and embroidery machine. Key activities include - Tie dye - Press printing - Modelling and stencilling - Use of sewing machine and hand sewing. - Batik - CAD & Cam using Cricut and Embroidery machines. - Heat press to apply vinyl to designs - Following construction drawings independently.	Assessment: All tasks are assessed live in lesson. Self-assessment/Peer assessment and teacher assessment. Planning will be discussed with the teacher in the lesson and self-assessed.