

Ovingham Middle School Subject Overview Year 6



Subject: Design Technology - The 3 Year 5 classes are split into 4 mixed groups for the teaching of DT. This allows for smaller

class sizes, ideal for teaching practical skills. Each group spends 9 weeks with an individual teacher and will visit 4 teachers over the course of the year.

Topic	Product Design 1	Product Design 2	Food Studies	Art
Areas of curriculum covered	In Resistant Materials pupils build on their knowledge of the mechanisms studied in Year Five, in particular cam mechanisms. They learn the skills necessary to cut wood using both a dovetail saw and a coping saw; how to join materials accurately using wood glue, hammers and nails and how to assemble a cam mechanism. Finishing techniques of sanding and painting are used to improve the appearance of their product. The brief for this project is to design and make a children's toy that can be on sale at a supermarket checkout. The toy must appeal to children, include a cam mechanism and be affordable to parents.	In this project pupils are taught how to evaluate console game controllers and their development from early controllers to the modern day. Pupils are taught about the concepts of aesthetics and ergonomics and then go on to research the material properties and sustainability of the plastics used in the manufacturing of these devices. Pupils use this process to help them design and build their own computer game controller that contains multiple inputs and a functioning d-pad using the makey makey board. Finally pupils design a themed skin for their controller based on a choice of games.	Pupils will develop their practical skills using a variety of techniques and equipment eg, handling pastry, adding liquid, the creaming method, and shaping. Pupils will explore the nutrients required in a healthy diet and why water and fibre are important to health. We will also consider how the seasons may affect the food available to us and identify food grown in the UK and overseas. Examples of Year 6 recipes include stuffed peppers, coleslaw, rock buns and tomato and basil tart.	Art, whilst not part of the Design Technology curriculum is taught as one of the four classes of the 'carousel'. In year 6 pupils begin by building on their skills from Year 5, increasing the complexity of their perspective drawing by constructing a street scene. They explore landscape, producing pencil drawings (in both grey-scale and colour). Finally, pupils are introduced to the medium of watercolour and following a series of sketches, make a final painting with an 'Indian inked', detailed foreground.
Links To RRSA	1, 2, 3, 13, 15, 24, 28, 29, 31	1, 2, 3, 13, 15, 24, 28, 29, 31	1, 2, 3, 13, 15, 24, 28, 29, 31	

Please be aware that each class is unique and although the above planning will be followed as close as possible, at times, and with individual classes, we may deliver deeper, extended learning into a topic, move faster to another topic or go slower to make sure we have clarified learning.

If you are in any doubt or have any specific questions about this subject please contact the subject coordinator: Mr Wright