

Sandbach School Design and Technology Curriculum: BREADTH OVERVIEW

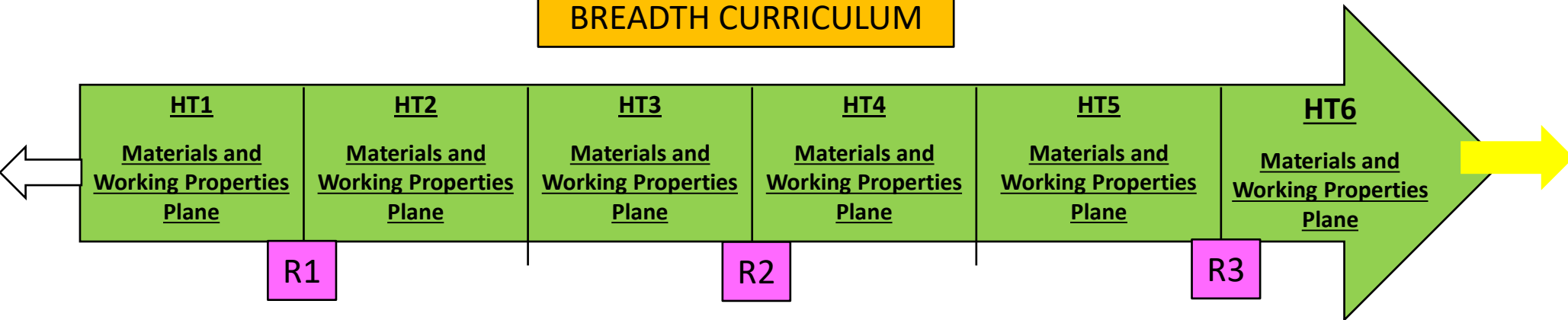
Introduce:

Curriculum Enrichment
AQA Design and Technology

Year 9 Design and Technology Curriculum Sequence

Intent: Pupils develop creativity, imagination and practical skills and embed skills learnt in Year 7 and 8. Through developing practical experiences in Specialist Rooms, pupils draw on and develop a range of different disciplines including Mathematics, Science, Engineering and CAD. The subject embeds literacy skills through analysis and evaluation techniques.

BREADTH CURRICULUM



Why These modules?

Introduction to practical work. Mini-project that includes the Design Process, planning, intuitive design, design fixation and basic practical skill.
Pupils required to problem solve and plan their own projects

National Curriculum Links

Pupils will:

Design - identify and solve their own design problems and understand how to reformulate problems given to them
Design - develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools
Make - select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture
- select from and use a wider, more complex range of materials, taking into account their properties
Evaluate - test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups

Teaching These Topics Here Supports:

NEA Development in Yr 10/11
Subject Knowledge and embedding understanding from Years 7 and 8
Science, Maths, English

Prior learning of skills learnt in Transition Phase
Subject Knowledge and understanding of sketching techniques
Exam Knowledge required for GCSE

Yr9 Breadth - Where Yr7 & 8 receive an introduction to foundation knowledge skills, Yr9 broaden their understanding by applying this knowledge to a focus practical tasks involving the entire design process from product conception to evaluation. Focus on personal organisation, time management, understanding key principles of marking out, cutting and finishing techniques.