

Our DT Curriculum

Ark St Alban's Academy

Our Approach

Our curriculum helps pupils develop their analytical, problem solving, practical capability and evaluation skills. Through a variety of creative and practical activities, pupils are taught the knowledge, understanding and skills needed to engage in a process of designing and making. They work in a range of materials including electronics, textiles and graphics through a topic-based approach which allows for cross curricular links to be made. We teach our pupils to plan and revise designs for a range purposes and audiences.

Subject Leader:

Ms Khaleda Qureshi (khaleda.queshi@arkstalbans.org)

Curriculum Map

KS3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	What is technical drawing?	What is analysis in product design?	What are graphics and why are they important?	What is Computer Aided Design?	What are electronics and how are they used?	What is Computer Aided Manufacture?
Year 8	How do I draw a technical drawing in one point perspective?	What are textiles and what are the properties?	What is Applique and how is it used?	Why do we evaluate? What is a design brief?	What are graphics and mechanisms?	What is testing and feedback?
Year 9	How do I draw a technical drawing in two point perspective?	What are sketching skills?	What are physical and working properties of materials?	What is sustainability?	How can you encourage younger generations to be sustainable?	What are CAD and CAM and how are they used?

KS4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Why does sustainability matter as a designer?	What is a Mechanical Advantage?	What are the workings of paper and board in preparation of manufacture?	What is the range of materials and properties that designers need to consider?	What are the uses of modern/smart materials in industry?	GCSE Design Brief
Year 11	Who is my client and what is my product?	What are my initial designs and feedback from my client?	How can I develop my designs to fit a client specification?	How can I create a realistic prototype for my client to assess?		