

Subject Curriculum Vision:

The Design and Technology Curriculum at AJK

INTENT

Why should all students learn this subject?

At AJK, we believe in the power of design and technology (D&T) to spark pupils' imaginations, providing them with opportunities to put their creativity to use in designing products that solve real and relevant problems. By providing a rigorous and knowledge-rich curriculum, we aim to inspire pupils to take risks, be resourceful and innovate to cater for their own and others' needs – drawing on skills developed from other STEM and art subjects. We also hope to enable them to evaluate critically the impact of design and technology on their daily lives.

What is the core knowledge in this subject?

Our design and technology units are structured around the following process:

- Design
- Make
- Evaluate

In addition, pupils are provided with the technical knowledge needed to:

- Build structures
- Strengthen structures
- Use mechanisms (e.g. levers, sliders, wheels, axles, pulleys)
- Use electrical systems
- Program, monitor and control products
- Prepare and cook a variety of healthy meals

Throughout, there is an emphasis on analysing existing products.

IMPLEMENTATION

How is this subject taught at AJK?

D&T is taught three times a year through drop-down days. Pupils begin by studying existing products. They then take part in focus tasks, guided by the teacher, to practise important skills that will be required for their finished product. They then plan their product, before constructing it using the skills that they previously practised.

IMPACT

What does assessment look like in this subject?

Outcomes from the drop-down days are used by school leaders to inform required changes to the curriculum.



UNIT OVERVIEW

	Autumn	Spring	Summer
Year 1	Wheels and axles	Freestanding structures	Preparing fruit and vegetables
Year 2	Templates and joining	Sliders and levers	Preparing fruit and vegetables
Year 3	Shell structures	2D shape to 3D product	Healthy and varied diet
Year 4	Pneumatics	Lever and linkages	Simple circuits and switches
Year 5	Cams	Frame structures	Celebrating culture and seasonality
Year 6	Pulleys or gears	Combining different fabric shapes	Celebrating culture and seasonality