



PLUME ACADEMY - LEARNING OVERVIEW

Year	8
Subject	Resistant Materials/Graphics

Prior Learning

The Year 8 curriculum builds on prior learning in by building upon their prior skills in research, design, planning, making and evaluation. This is delivered through a series of projects used to develop their understanding and skills. Each of these projects also introduces new focuses for development.

Curriculum Intent – What are the curriculum aims?

The year 8 curriculum aims to equip the students with the necessary knowledge to understand the process of designing and making a high quality product and the importance of each stage of the cycle (research, design, planning, making and evaluation). Each project will also teach the students the theory behind a topic (mechanisms, equilibrium and Graphics) enabling the students to include this within their design and outcomes. The students will also be taught how to safely and effectively use a range of tools with each project having a different practical aim.

Curriculum Implementation – What my child will be learning?

Term 1	Half Term 1	Mechanical Toy (or Balancing Toy) Mechanisms, Wood joints, Research, Design, Planning, Making, Evaluation
	Half Term 2	Mechanical Toy (or Balancing Toy) Mechanisms, Wood joints, Research, Design, Planning, Making, Evaluation
Term 2	Half Term 3	Balancing Toy (or Balancing Toy) Machine Lathe, Brazing, Equilibrium, Research, Design, Planning, Making, Evaluation
	Half Term 4	Balancing Toy (or Balancing Toy) Machine Lathe, Brazing, Equilibrium, Research, Design, Planning, Making, Evaluation
Term 3	Half Term 5	Toothbrush Packaging Graphics, Analysis, Research, Design, industrial processes. Modelling, Evaluation
	Half Term 6	Toothbrush Packaging Graphics, Analysis, Research, Design, industrial processes. Modelling, Evaluation



Curriculum Impact – How will progress be assessed?

Informally, students work is marked regularly with adjoining feedback. Students will also receive verbal feedback through classroom discussion.

Formal assessments will take place at the end of each project and will cover, research, design, planning, making and evaluation.

Super-Curricular Opportunities – Extending Learning

Useful study resources:	If a student is really passionate about this subject, they could:	As a parent/carer, I can assist my child in this subject by:
<p>Full resources are provided, however students may find design and make videos on YouTube to be of use.</p> <p>Practical activity, however, should always take place under the supervision of an adult.</p>	<p>Watch an episode of The Gadget Show https://www.channel5.com/show/the-gadget-show/</p> <p>Design and make a Birthday card for a family member or friend.</p> <p>Read about Tim Peake's time in space</p>	<p>Research information about 3D Printing and CNC machines</p>