



## PLUME ACADEMY - LEARNING OVERVIEW

Year	8
Subject	Resistant Materials

### 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 electronics) 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	<b>Mechanical Toy</b> Mechanisms, Wood joints, Research, Design, Planning, Making, Evaluation
	Half Term 2	<b>Mechanical Toy</b> Mechanisms, Wood joints, Research, Design, Planning, Making, Evaluation
Term 2	Half Term 3	<b>Balancing Toy</b> Machine Lathe, Brazing, Equilibrium, Research, Design, Planning, Making, Evaluation
	Half Term 4	<b>Balancing Toy</b> Machine Lathe, Brazing, Equilibrium, Research, Design, Planning, Making, Evaluation
Term 3	Half Term 5	<b>Toothbrush Packaging</b> Vacuum Forming of plastics, functions of packaging, Analysis, Research, Design, Planning, Making, Computer Aided Design, Evaluation
	Half Term 6	<b>Toothbrush Packaging</b>



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### Curriculum Impact – How will progress be assessed?

***Brief notes on how work will 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

<b>Useful study resources:</b>	<b>If a student is really passionate about this subject, they could:</b>	<b>As a parent/carer, I can assist my child in this subject by:</b>
	Watch an episode of The Gadget Show <a href="https://www.channel5.com/show/the-gadget-show/">https://www.channel5.com/show/the-gadget-show/</a>  Design and make a Birthday card for a family member or friend.  Read about Tim Peake's Time in Space	Research information about 3D Printing and CNC machines