## 1. Year 9 Curriculum Plan – Technology

## YEAR 9 SUBJECT: Systems & Control

## LEARNING PROGRAMME



PIC	LEARNING OBJECTIVES	KEY VOCABULARY	LEARNING SEQUENCE	LINKED LEARNING	HOME LEARNING
• Year 9 (i) - Mechanical Systems / Movement	<ul> <li>Understand how mechanical devices and systems produce different types of movement.</li> </ul>	Liner Motion Oscillating Motion Rotary Motion Reciprocating Motion	Watch the video & take notes. Compare notes and fill in the gaps. Mr Shaw's Lego Challenge.		
	Understand how to Change Magnitude and Direction of Force: Levers	Class One Lever Class Two Lever Class Three Lever Fulcrum Input / Output Load Effort	Watch the video & take notes. Compare notes and fill in the gaps.		
	Understand how to change Magnitude and Direction of Force: Linkages and Rotary Systems	Gears Simple gear train Diver Gear Driven Gear Velocity Ratio Belt Drive Reverse motion linkage Push/pull linkage Bell crank linkage Cams and followers	Watch the video & take notes. Compare notes and fill in the gaps.		
<ul> <li>Year 9 (ii) -         Mechanical         Systems /</li> </ul>	Understand how to combine mechanical devices and structures to produce		Choose and Tech card model and produce a		
Movement	functional models.		functioning product.		