

Year group	Project	Theory & skills developed
7	Pacman light	<ul style="list-style-type: none"> • Health and safety • Electronics and soldering • Polymers
	Wooden animal	<ul style="list-style-type: none"> • Marking out, cutting and finishing timbers • Timbers
	CAD & CAM	<ul style="list-style-type: none"> • Developing 2D Design skills
	Structures	<ul style="list-style-type: none"> • Types of structures • Forces • Structural failure • Design skills • Teamwork and problem solving skills
	Drawing skills	<ul style="list-style-type: none"> • Isometric drawing
8	Adjustable light	<ul style="list-style-type: none"> • Electronics and soldering • CAD/CAM skills • Timbers • Design skills
	CAD & CAM	<ul style="list-style-type: none"> • 2D Design skills • Solidwork skills • 3D printing skills
	Land yacht	<ul style="list-style-type: none"> • Teamwork and problem solving skills • Designing skills
	Drawing skills	<ul style="list-style-type: none"> • Perspective • Isometric drawing
9	Desk fan	<ul style="list-style-type: none"> • Product analysis • Learning about the design work of Alessi • Finishing plastics and manufacture techniques • Electronics and soldering • Designing skills
	Cargo drop	<ul style="list-style-type: none"> • Teamwork and problem solving skills • Designing skills
	Drawing skills	<ul style="list-style-type: none"> • Isometric drawing • Orthographic drawing
	CAD & CAM	<ul style="list-style-type: none"> • 2D Designing skills • Solidworks skills • 3D printing skills