

Project Duration	Year 7	Year 8	Year 9
September - December	Steady Hand Game <ul style="list-style-type: none"> ● Design and Make ● Electronics ● Timbers ● Electronics ● Soldering ● Hand Tools ● Machine Tools 	Mechanical Toy <ul style="list-style-type: none"> ● Design and Make ● Motions and Movement ● Cams, Gears, Pulleys and Levers. ● Timbers ● Hand Tools ● Machine Tools 	LED Frame <ul style="list-style-type: none"> ● Design and Make ● CAD ● CAM ● Electronics ● Soldering
December - March	Wooden Car <ul style="list-style-type: none"> ● Design and Make ● Timbers ● Aerodynamics ● Hand Tools ● Machine Tools 	Wooden Box <ul style="list-style-type: none"> ● Design and Make ● Timbers ● Wooden Joints ● CAD ● CAM 	Trainer/Sneaker <ul style="list-style-type: none"> ● Design and Make ● Prototypes ● Papers and Boards ● Textiles
April - July			

Note: Students rotate on a 13 week carousel. Students will complete all 13 week projects throughout the duration of the academic year. Project timings may vary depending on class.

Project Duration	Year 10
September - October 6 Week Project	Prototype Project <ul style="list-style-type: none"> ● Papers and Boards ● Methods of Production ● Stock Forms ● Hand Tools and accuracy

Project Duration	Year 10
October - February 12 Week Project	Games Controller <ul style="list-style-type: none"> ● Timbers ● Bag Press ● Metal Work ● Metal Lathe ● Brazing ● Printing ● Surface Finishes and Treatments ● Advertising and Packaging

Project Duration	Year 10
February - June 12 Week Project	Wooden Storage Organiser <ul style="list-style-type: none"> ● Timbers ● Wooden Joints ● Veneers ● Surface Finishes and Treatments ● Polymers ● Hand Tools ● Machine Tools

Project Duration	Year 10
June - July 7 Week Project	Disassemble Project <ul style="list-style-type: none"> ● Timbers ● Hand Tools ● Fabrication ● Production Methods ● Stock Form ● CAD ● CAM

Note i: Project timings may vary depending on class.

Note ii: Students will have a focus on exam techniques, materials and production methods.

Note iii: NEA released by examination board on 1st June.

Project Duration	Year 11	
September - May	<p>NEA (Non-Exam Assessment)</p> <p>Investigate (16 marks)</p> <ul style="list-style-type: none"> This includes investigating design possibilities through research involving a user/client, the identification of a suitable design brief, and writing of a specification. <p>Design (42 marks)</p> <ul style="list-style-type: none"> This includes producing different design ideas, reviewing these ideas against the specification and with a user/client, refining and developing a chosen design, the review of the chosen design, and the communication of design ideas through written, CAD and graphical methods. <p>Make (36 marks)</p> <ul style="list-style-type: none"> This includes selecting appropriate materials and component parts, the manufacture of the solution evidencing skills and processes, and a focus on quality and accuracy. <p>Evaluate (6 marks)</p> <ul style="list-style-type: none"> This includes testing of the made solution against measurable and technical criteria from the specification, and reflective analysis and evaluation, including a life cycle 	<ul style="list-style-type: none"> Investigating environmental, social and economic challenges Investigating and analysing the work of others The impact of new and emerging technologies How the critical evaluation of new and emerging technologies inform design decisions <ul style="list-style-type: none"> Design strategies Develop, communicate, record and justify design ideas. <ul style="list-style-type: none"> Development of modern and smart materials Mechanical Devices Metals Timbers Papers and Boards Polymers <ul style="list-style-type: none"> Flow charts Testing Evaluation

Note: Students will have a focus on exam techniques, materials and production methods.