Subject Year 10 Computer Aided Design

**Project 1: Architectural**
- Grand Designs Evaluation Documents (x3)
- Real estate Report & Research document- (Literacy Component)
- 3D model of existing design- SketchUp
- Redesign phase- Modify 3D model
- Develop Floor plan and elevations- Revit
- Calculate total remodel expenses, and budget- (Numeracy Component)
- Real estate sales brochure

**Project 2- Engineering/ Product design project:**
- Research current market
- Design Brief
- Design Phase (inc 8 concepts)
- Model Design- Autodesk Inventor
- Photorealistic rendering of final design
- Animation of Final Design and Assembly
- 3D Printed model of final design (Time Sensitive)

**Skills and Techniques:**
- Materials and processes discussion
- Hand drawing/ sketching skills and idea generation
- Orthographic Drawing
- Design presentation skills
- Autodesk Inventor Basic Skills & Techniques
- Autodesk Revit Basic Skills & Techniques
- SketchUp

**Assessment**
Students are assessed on a folio of work covering 2 major assignments (Architectural and Engineering). The Folio consists of hand drawings, computer generated drawings, research results and written evaluations for each assignment.