### Subject: Year 9 Computer Aided Design

#### Project 1: Architectural Design
- Grand Designs Reflective exercises X3
- Hand Drawing skills - Floor Plans - Students develop a floor plan for their ‘Grand Design’
- 3 Dimensional model of house developed on computer (Sketch Up)
- Floor Plan and Elevations (AutoDesk Revit)
- Sales Brochure (Photoshop/ Publisher/ Word)

#### Project 2- Garment Design:
- Research existing market
- Generate design brief
- Design Phase (inc 5 hand drawn concepts)
- Refine Design- generate high quality graphic (Photoshop/ Illustrator)
- Use vinyl cutter and cad software to cut stencil (Roland CutStudio)
- Silk screen design

#### Project 3- Engineering:
- Autodesk Inventor Basic Skills & Techniques
- Hand drawing/ sketching skills and idea generation
- Design Phase (inc 8 concepts)
- Model Design- (Autodesk Inventor)
- Photorealistic rendering of final design

Animation of Final Design Solution

**Assessment**

Students will undertake 3 main projects focusing on 3 different aspects of Computer Aided Design. All of these projects develop different skills and techniques using industry standard software packages. Assessment is based on a folio of printed work and hand drawings. A Digital copy of students work is also assessed for the architectural project.. The assessment folio doubles as a personal Design Folio.