

**The Mathematics of Design and Costing**  
**CLA for MCT4C in conjunction with Construction and Manufacturing**

Information for Students

The following 6—8 hour activity will help students who are in MCT4C and SHSM Construction and Manufacturing use mathematics to solve costing and design problems. Students will use technology, Geometer's Sketchpad and online resources, to 'construct' a bungalow and determine some of the costs associated with flooring, painting and roofing. Students will work with conversions between Imperial and metric systems as they solve these problems. A guest speaker from the construction/interior design industry will illustrate the use and importance of mathematics in their career. Students will maintain and submit a portfolio of their completed work for assessment during and at the end of the activity.