

# *Sketchup Lesson Plans*

## **Session 1: Getting Started: the Basics**

### **Purpose:**

- Students will learn the basic drawing tools for 3D structures.

### **Activities:**

- Students will go over the Getting Started Video tutorials (1, 2 and 3).
- Students will use the techniques that have learned to explore to create some 3D structures of their choosing.

## **Session 2: Advanced Techniques for Drawing**

### **Purpose:**

- Students will learn more advanced techniques for drawing architectural structures including:
  - Follow Me tool
  - Offset Tool
  - Protractor
  - Rendering Options
  - Using Components
  - Downloading Models

### **Activities:**

- Students will go through the advanced Video Tutorials created by Miles Derksen for Sketch Up.
- Students will then use the techniques to create some advanced 3D structures.

## **Session 3: The Dream Home**

### **Purpose:**

- Students will create an environmentally friendly dream home using Sketchup.

### **Activities:**

- Students will discuss environmentally friendly housing.
- Students will be shown examples of these homes using a set of videos created by Miles Derksen
- Students will create their home using Sketchup.

## **Session 4: The Medieval Castle**

### **Purpose:**

- Students will create a Medieval Castle using Sketchup.

### **Activities:**

- Students will discuss and learn about Medieval Architecture.
- Students will then create their own Castle structure using Sketchup.

## **Session 5: The Auditorium**

### **Purpose:**

- Students will design an Auditorium or Sports Complex for their home town.

### **Activities:**

- Students will discuss the architecture of Auditoriums or Sports Complexes.
- Students will be shown examples of these complexes.
- Students will create a design in Sketchup.

*Optional:*

## **Session 6: The Future**

### **Purpose:**

- Students will muse about future architecture and then use Sketchup to create futuristic buildings.

### **Activities:**

- Students will discuss possibilities for future architecture.
- Students will be shown some conceptual drawings of the future.
- Students will create their concept of the future using Sketchup.

## **Session 7: the Spacestation**

### **Purpose:**

- Students will design a space station using sketchup.

### **Activities:hup.**

- Students will be discuss space station architecture.
- Students will be shown examples of conceptual space stations
- Students will create their own concept of a space station.

For each project, students will present their final completed designs to the class.