

UNDERSTANDING ARCHITECTURAL MODEL MAKING

UNIT: ARCHITECTURE_LEVEL 3

THE PROBLEM:

Architects use models to help communicate building designs with people all over the world. Using the materials and the resources provided, you will explore and learn how to cut, organize and assemble architectural models.

CONSTRAINTS AND CRITERIA

1. Understand how to use different assembly techniques to create a model.
2. Learn how to organize your designs and create a 3-Dimensional presentation tool.
3. Create an architectural model.
4. Use hands-on techniques and tools to manipulate different materials.

MATERIALS:

- 11"x17" PDF Plans
- 11"x17" Sheet of Museum Board (2)
- Spray Adhesive
- Cutting Tools (Exacto Knife / Box Cutter)
- Foam Werks Cutting Tools / Track
- Metal Ruler (12" or 18")
- Hot Glue Gun
- Hot Glue Sticks
- Cutting Mat

DIRECTIONS:

Be sure to check off each step ☒ as you progress.

- ☐ **Step#1** – Key Terms

Using the presentation provided, take notes on architectural key terms. Architects need to be detailed

when making models for buildings, using proper terminology helps them to explain their ideas and communicate them effectively.

☐ **Step#2** – Architectural Model - Prep

Print and attach the PDF Plans (layout of model pieces) to the museum board using spray adhesive. Allow several minutes for the paper to dry on the museum board.

☐ **Step#3** – Architectural Model - Assembly

Carefully cut the pieces for your model out of the museum board. Use the various cutting tools at your disposal. Remember to cut away from you. Always emphasize safety when using these types of tools. When the pieces are cut out, use hot glue to assemble the model. Please reference the Activity Video in Level 3 of your Stem101 website.