

## Classical Architecture Goes Tubular

**Concept:** Students can master the basic concept of weight supporting structures by creating structures from paper tubes and cardboard. The pitfalls of shoddy construction in future models will be avoided by this practical experience.

- Goals:**
- To create an awareness of structural principles
  - To develop an understanding of three-dimensional form as free-standing structure
  - To familiarize students with classical canons of architecture
  - To give students building experience for future model building

**Motivations:** Students will be shown photographs and drawings of Greek temples. The concept of proportion will be introduced. Students will be given a demonstration of column strength using cardboard tubes and books. Students will be asked to use paper tubes to create a three-dimensional post and lintel structure that is structurally sound and pleasing in its proportions.

**Materials:** Drawing paper – cut in 4.5”x6” rectangles  
Scissors  
White glue and glue brushes  
Cardboard base for structures

**Process:** Students will roll the paper in to columns and glue the sides. They will use a ruler to mark point for tab cuts. Tabs will be cut and columns glued down on cardboard base. Students will proceed to roof and pediment structures. They may be unconventional in this element of design. The structures should be stable and “shake” proof. They should be aesthetically pleasing and considered a mini temple.

**Evaluation:** Were the goals met? Students should test structures for stability.

**Standards:** NYS Learning Standards for the Visual Arts #1, #2, #3,#4