

# STEP 1: DESIGN A PLAN FOR THE PROJECT

## PROJECT OVERVIEW

In this project, students will explore the relationship between geometry and architecture by designing and constructing a scale model of a unique architectural structure.



## TASKS

- Research and select an architectural structure to recreate in a scaled-down model.
- Study the geometric principles and mathematical concepts involved in the chosen structure's design.
- Create a detailed blueprint or plan for their scale model, incorporating the relevant geometric shapes and measurements.
- Gather materials needed for construction (e.g., cardboard, rulers, scissors, glue).
- Construct the scale model according to their blueprint.
- Prepare a presentation explaining the geometric principles applied in their model's design.



## STEP 2: CREATE A SCHEDULE

### WEEK 1: PROJECT INTRODUCTION AND RESEARCH

- Day 1-2: Introduction to the project, essential question, and objectives.
- Day 3-4: Select architectural structures and gather initial research.
- Day 5-7: Explore geometric principles related to architecture.



### WEEK 2: BLUEPRINT AND MODEL PREPARATION

- Day 8-10: Develop a detailed blueprint for the scale model.
- Day 11-13: Gather necessary materials for construction.
- Day 14-15: Begin constructing the scale model based on the blueprint.



### WEEK 3: MODEL COMPLETION AND PRESENTATION

- Day 16-18: Continue and complete the construction of the scale model.
- Day 19-20: Prepare and rehearse the presentation.
- Day 21: Finalize the scale model and deliver presentations.

