

## Lesson 14 Building with PVC pipe (If there is time to dedicate one class period to experimenting with the PVC pipe)

**Objectives:** Students will have hands-on experience using PVC pipe as a building material.

**Materials:** For each group:

- ∞ PVC pipe – ½", cut into pieces: 6", 12", 18"
- ∞ PVC pipe fittings for ½" pipe: 15 T-connectors, 15 L-connectors, 8 straight connectors
- ∞ Small binder or folder with place for inserting loose leaf paper for journal
- ∞ Handout: Building with PVC Pipe
- ∞ Extra sheets of blank paper, pencils, markers
- ∞ Folder for team project portfolio
- ∞ Camera to take pictures of group projects

**Sponge:** Review handout.



**Initial**

**Discussion:** What is PVC pipe used for? Why might we be using it in this class? Introduce project for next several classes: build an elevator. Suggest that teams consider coming up with a team name.

Discuss project portfolio (journal) and handout.

**Project:** Experiment with PVC pipe. What kind of structure can you make?

Group must complete the page for the project portfolio. Toward end of class period, suggest that one or more team member designs a cover page for the elevator project.

Vocabulary: PVC pipe – pipe often used for sprinklers made of polyvinyl chloride

Final

Discussion: Each group tells the possible uses and benefits of the structure they built and anything they learned in the process of building with PVC pipe. Groups complete handout for portfolio.

Clean up: Remove all connectors from pipes.

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