# El Pueblo: The Watts Towers

By Sam Simon





## **Project Description**

## **A Community of Towers**

#### **Project Description:**

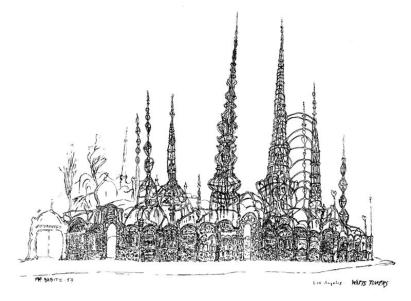
As an inquiry into the properties of different solid matter you and your team will work together to create a tower out of "trash." After your tower is built, you and your team will present your work along with the commentary about what you learned as a team member, an artist, a scientist, and an engineer. As a culminating activity, all the towers will be arranged together to create a "pueblo" or "town" that represents your community.

#### You will need to work together collaboratively to

- Create a design of your tower
- Consider the structural integrity of your tower (how strong and stable it is)
- Consider the aesthetic impact (how it looks and how people respond to it)
- Plan the construction of your tower
- Build and test your tower to ensure that it can withstand an earthquake test
- Create and give a presentation about your work and learning process
- Reflect on your understanding of solid materials throughout this process

#### You will be evaluated on

- How you collaborate with your team
- The detail and completeness of your design
- Your project plan
- ❖ Your explanation of how and why you included certain elements in your design
- Your interactive notebook responses
- Your final presentation

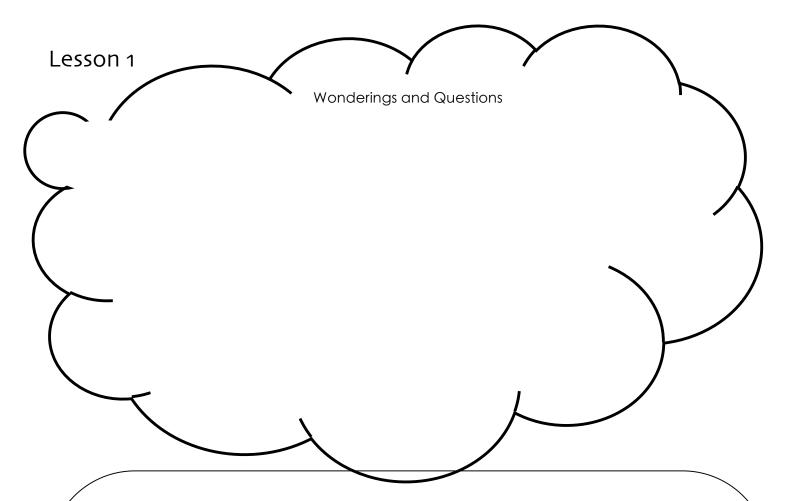


### **CONSTRUCTION** Criteria and Constraints

Structure	Materials	Connections
Reach a minimum height of 3 Feet *Must fit a 1ft by 1ft platform *Must be able to be transported across the room Can have little or no visible evidence of stress after an earthquake test (torsion, shear, compression, bulge) Must be the structure depicted in written/drawn plan	Incorporates a variety of materials *Materials are chosen based on their properties Must be made of T4T materials or found materials	Uses at least 2 connection types *Cannot use tape or glue

### **DESIGN** Criteria and Constraints

Plan		Drawing	Revision
	Must have an idea or	Must include all	Every change is
	feeling to be	the component	depicted in the
	expressed	parts	plan
		Must depict and	
	Must create a design	label materials	Changes are
	that expresses the	used	documented in
	focus idea or message	Must depict how pieces will be	different colors
	Includes ideas or	connected	If necessary
	elements from all team	Shows more than	revisions are
	members	one perspective	documented on
		Has close ups of	new paper or
	Considers the	details	overlaid with
	aesthetics and color of	Must include a	post-it/taped
	material type	rational for	papers
		decisions	*cannot erase
	Considers how		
	materials function and		
	interact		



How and why would understanding your materials help you build a better tower?