

TEAM NAME:

Individual Names:

ASK:

The challenge/problem you need to solve (use vocabulary):

The constraints:

Time: _____

Cost: _____

Materials: _____

Tools: _____

Other: _____

Questions you need to research and answer:

Q1. _____

A1. _____

Q2. _____

A2. _____

Q3. _____

A3. _____

Q4. _____

A4. _____

IMAGINE:

In the space below, sketch out 3 possible (AND DIFFERENT) ideas.

PLAN:

Discuss the sketches from the IMAGINE step. Which is going to be the best? Why?

Create a FINAL PLAN for your design in the space below. Be sure to include your planned measurements. (top and side view)

List out WHO will be doing WHAT during the building process. (packet/writer, materials, design)

Name: _____ will be _____

Name: _____ will be _____

Name: _____ will be _____

CREATE:

Collect your set of materials and get ready to create. At the teacher's signal, begin to create your prototype.

Be sure to pay close attention to your group's construction process. What is going well? What could have been done better?

You will need to be taking notes during the construction process. Keep notes in the boxes on the next page.

EDP Cycle 1: Prototype 1

- a. NOTES ABOUT CONSTRUCTION (strategies for making the tower, did everyone do their jobs, etc.):

- b. Pre-Test: Test your tower from all directions. Write your observations here:

- c. What went well?

- d. What needs to be changed?

EDP Cycle 2: Prototype 2

- e. NOTES ABOUT CONSTRUCTION (strategies for making the tower, did everyone do their jobs, etc.):

- f. Pre-Test: Test your tower from all directions. Write your observations here:

- g. What went well?

- h. What needs to be changed?