## West Point Bridge Design Project

Use the following criteria to create your bridge on your own using West Point Bridge. When you have completed your bridge you must identify which type of bridge it resembles, or which it is closest to resembling, using the images provided below.

## Bridge Building Criteria:

- 1. A 44m span at 24m height
- 2. No templates
- 3. Usage of triangles as trusses to increase rigidity
- 4. Use of all three types of building materials
- 5. Use of hollow and solid bar
- 6. Different thicknesses of materials throughout design
- 7. Under budget of \$375,000
- 8. Identified structural design that most closely represents their design

## **Grading Criteria:**

1. Bridge dimension requirements	5pts	
3. Use of hollow or solid bars	5pts	
4. Use of different thicknesses	5pts	
2. Use of all building materials (All 3 types of steel beam)	10pts	
5. Budget- 2pts @ each \$5,000 over		20pts
6. Identified bridge design	5pts	
Total	50nts	

When you have completed all of the components of the assignment, you may print your final design.

Write the following on the page you print out:

- 1. Name
- 2. Class Period
- 3. Bridge Type

