Paper Tower Lab

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lab Partners:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purpose:** To construct a free-standing tower out of one sheet of construction paper and 30 cm of transparent tape. The tower must be a minimum height of 100 cm and stand unaided for a minimum of 5.0 sec. The activity is designed to create an opportunity for students to work together toward a common goal; to express individual ideas; to respect the thoughts and ideas of other students.

**Equipment:** construction paper, 30 cm of transparent tape, scissors, ruler, meter stick.

**Procedure:**

1. Construct a trial tower, as often as needed, during the first class period.
2. Construct the final tower, to be graded, during the second class period.
3. The trial tower cannot be used as the final project because the equipment is not controlled.

**Data:** Tower height\_\_\_\_\_\_\_\_\_\_\_\_

Sketch of your tower:

**Conclusion:** (Answer each question with complete sentences.)

1. Explain, in your opinion, why your tower project succeeded/failed.
2. Observe the tower designs of the other groups.
   1. Was there a common design among those towers that stood? Explain.
   2. Was there a common design among those towers that failed? Explain.
3. How well did your lab partners work as a group? Explain.