

FREE STANDING STRUCTURE WORKSHEET

I. Students work in groups to build a free standing structure. The objective is to build the tallest structure while spending the least amount of money on materials. Students may use only specified materials.

II. Cost of materials are:

Straws- \$1.00 each
Paper clips- \$.20 each
Straight pins- \$.10 each
Masking tape- \$.20 an inch

III. Structure Calculations

_____ pins x \$.10 = _____

_____ paper clips x \$.20 = _____

_____ in./cm. tape x \$.20 = _____

_____ straws x \$1.00 = _____

Height of structure _____ in./cm.

Total cost of structure _____

IV. After structure is built, students will discuss and answer questions within their group. A spokesperson from each small group will share structures and worksheet questions with whole group.

V. Questions

1. What was the most difficult part of building the free standing structure?
2. What problems, if any, did you have to solve?
3. What changes, if any, did you make after beginning construction?
4. If you could do it again, what changes, if any, would you make?