

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

Date: \_\_\_\_\_

## **Erosion Competition**

You are competing against all 8<sup>th</sup> graders to build a landform that supports a "house" and can best withstand the effects of erosion. You will be given sand, gravel, or dirt, and you must construct a landform that has a height of at least 1 inch. You will also be provided with other man-made materials to help slow the effects of erosion.

### ***Winning***

You will be competing against other groups in your category. For example, sand groups will go against other sand groups.

Each group begins with a score of 0 when they are given the sand, gravel, or dirt. For each made material the group chooses to use, points will be deducted from 0.

1 steel screw = 10 points

1 popsicle stick = 5 points

1 wooden spike = 4 points

1 paperclip = 3 points

1 metal nail = 2 points

For example, a group uses 3 paperclips and a steel screw. Their score would be -19.

You may only use the available materials provided in your lap bin. Your design will be inspected before the competition.

Once it is time for the contest, the small "house" will be placed on your design. Mr. Jakcsy will then start the effects of erosion. For each second the house stays upright, your team will earn 1 point. The team with the highest score wins.

## Entering the contest

Each **group** must complete all of the following steps:

X Build a landform using their natural material that is at least 1 inch high

X Document the materials the group uses to help support the landform (nails, screw, paper clips, etc) in the space below.

X Make a sketch of the design

Each **person** must do the following:

X Write a 3-4 sentence paragraph describing the design and make a prediction about how well their design will work

## Grades:

20 total points

10 points for the individual paragraphs (Before and After)

10 points for group work

2 points for working as a team

2 points for accurately documenting materials

2 points for an accurate sketch

2 points for every 10 seconds the house can stand (up to 4 points)

Members of the Group: ~~XXXXXXXXXXXXXXXXXXXX~~

**Erosion Competition Group Handout**

Material: Sand

F8

Group Name: Prancing Cobras

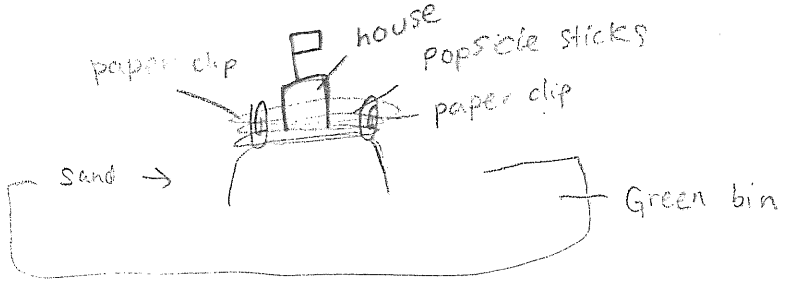
Items Used

2 popsicle sticks (-10)  
2 paper clips (-6)  
(-8)

Beginning Score

~~24~~  
-24

Sketch



Meets Requirements: [Signature] (Mr Jakcsy must sign this)

Total Time House Stands: 5

Final Score: Time - Beginning Score

5 - 24 = -19