Grade 7 Science

Unit 4: Structures

Structures Design Challenge

Today is the test day for your structures. Please read the steps below, as there is a lot we will get accomplished this period. Follow each step, in order, to make sure we get everything done.

1. Mass your structure on the triple beam balance, remembering to call over a witness from another group (group).
2. Record your mass on a post-it note (group).
3. Place your structure on the table where Mr. C. is sitting (group).
4. Take a set of numbers (individual)
5. Cut out the numbers - don't lose any (individual).
6. Wait patiently for further instructions.

Mr. C. will begin calling groups to check the criteria of their structures. Once all have been checked, we will move on to the next stage of testing.

Structures Design Challenge

It is now time to check the aesthetics of the structures. Please read and then follow the following steps individually:

1. Look at ALL of the class structures.
2. In your head, determine how you would rank the aesthetics of the structures.
   - Aesthetics   The properties of an object that make it appealing to the senses.
3. Place the numbers in the beakers in front of the structures.
   - The most aesthetically pleasing gets a 1
   - The least aesthetically pleasing gets a 6
4. Sit quietly as soon as you are done.

Once everyone is done we will move on to the final stage of this task, which is testing the capacity of your structures.

Structures Design Challenge

It is now time to test the capacity of your structure. For this test there are multiple safety rules that need to be followed by all.

- No one is to be on the inside of the circle of desks, other than me.
- You may sit on the desks, but your legs may not be hanging down.
- Anyone wearing sandals must have their feet off of the ground.
- Anyone who is goofing around will be asked to leave the room, as their actions may distract me, or others, and cause injury.

Remember to record the mass your structure holds.

Recall that your worksheet is 25% of this assignment mark.

Your worksheet is due: _____