


# Grade 7 Science

## Unit 4: Structures



## Structure Testing

Today you will be building some small structures, and you will need to work very quickly to finish.

We will read through the worksheet, discuss the experiment, look at the supplies, and then you will work for the remainder of the period. Please take a copy of the sheet and place it in your binder.

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

### Structure Testing

Purpose:

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Equipment:

- 1. 100g mass (10)
- 2. 50g mass (10)
- 3. 20g mass (10)
- 4. 10g mass (10)
- 5. 5g mass (10)
- 6. 2g mass (10)
- 7. 1g mass (10)
- 8. 0.5g mass (10)
- 9. 0.2g mass (10)
- 10. 0.1g mass (10)

Procedure:

Design:

1. Design a structure that will support the most weight. Use the materials provided to build your structure. The structure must be able to support the weight of the mass.



Testing:

1. Place the structure on the base and add the mass. Record the weight supported.

# Structure Testing

Rules:

- Glue guns stay on or above paper at all times - no glue gets on counters.
- You have very limited glue use, do not waste it!
- You can not make mass structures.
- If you make a mistake, you only get one extra cue card, so plan carefully.
- Label all of your cue cards with marker as soon as you get them.

We will test your structures NEXT CLASS, so you need to work efficiently. You may use breaks to finish up if you so desire. You will be receiving an assignment mark based on your work for this experiment.



## Attachments

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4-4 Paper Olympics.pdf

4-4 Structure Testing.pdf