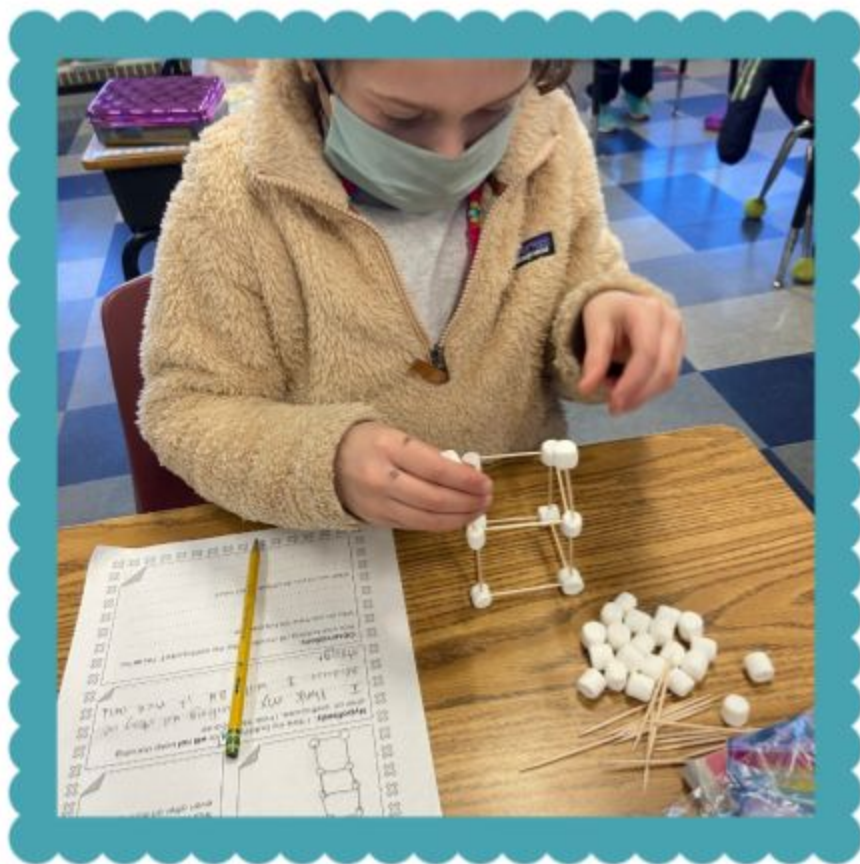


STEM: Marshmallow Engineering Challenge

Challenge:

You have 15 minutes to build a free-standing structure -- made only from toothpicks and marshmallows -- that will keep standing even after an earthquake.



HOW TO USE THIS RESOURCE

Thank you for purchasing my product.

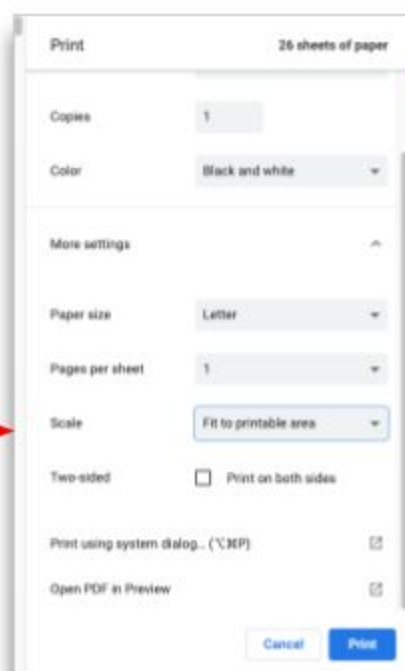
Procedure:

1. View video: [How to Demonstrate Engineering Principles](#)
2. Each individual or small group will use marshmallows and toothpicks to build a multistory free-standing structure.
3. Structure may be any shape (rectangle, triangle, square,...).
4. Building must be three stories high.
5. After completing the structure, students pound desks to see if their structure can withstand an "earthquake."

Printing:

1. The buyer will need to print the activity sheet for individual or small group use.
2. Teachers may print the activity sheet using every day 8.5" × 11" paper (no legal paper needed).
3. If part of a page (slide) does not print, change the Print panel SCALE settings to: "Fit to printable area."

Thank you!



Marshmallow Engineering Challenge

My Plan: Draw a picture of your building

Challenge:

You have 15 minutes to build a free-standing structure made from toothpicks and marshmallows that will keep standing even after an earthquake.

Materials (each student):

- 30 toothpicks
- 30 mini marshmallows
- Paper towel

Hypothesis: I think my building **will** or **will not** keep standing after an earthquake. I think this because:

.....
.....

Observations:

Was your building still standing after the earthquake? Yes **or** No

Why do you think this happened?

.....
.....

What would you do different next time?

.....
.....

CREDITS & Notes



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Until next time,
Joanne

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