

# Geo-Bread House Math Project



Our class is doing a *Geometry Unit* in Math where we will learn about symmetry, types of angles, geometric shapes (both three dimensional and two dimensional), area, volume, perimeter, perpendicular, parallel and intersecting lines. Assessments will include the Math Notebook, *Geo-Bread Book*, quizzes and tests. However, the most exciting (and delicious) assessment will be when we create our very own gingerbread house (*Geo-Bread House*). Students will be identifying the different geometry concepts on their own *Geo-Bread House* in a one-on-one assessment with the teacher.

In order to make this project a success your child will need the following items. Please have items to school on Monday, December 10. We will be building on December 12, Wednesday. Here are the supplies needed for the base of our *Geo-Bread House*:

- 🍪 1 box of plain graham crackers
- 🍪 2 containers of ready-to-spread plain white frosting
- 🍪 1 piece of cardboard the size of a piece of paper (8 ½" x 11")
- 🍪 An empty cube box of Kleenex

In addition to the materials we need for the base, students will need to bring candies to decorate the building with. The candies we

brainstorm in class (located in the *Geo-Bread Book* the children will be making) represent the different geometric shapes we've studied. Below is a copy of the grading sheet that will be used to assess the *Geo-Bread House*. Using the *Geo-Bread Book*, discuss as a family which candies you will buy. Make your grocery list right on this page if you'd like to.

There will be a donation table the day we decorate so if students struggle to find an item then they can visit the donation table. Extra candy from the students will be put on the donation table as well as candy that I bring in. Remember: three dimensional shapes can be constructed using two dimensional shapes!

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## **Geo-bread House Checklist and Grading Sheet**

Lines and Angles:

Parallel lines	Perpendicular lines	Intersecting lines	Right angles	Obtuse angle	Acute angle
0 sets 1 set 2 sets more	0 set 1 set more	0 set 1 set 2 sets more	0 1 2 3 4 more	0 1 more	0 1 more

\_\_\_\_\_/11 points (1 point per set or angle)

Plane Figures:

Circle	Rectangle	Square	Parallelogram	Rhombus	Triangle	Hexagon	Trapezoid

\_\_\_\_\_/8 points (1 point each)

Solids









Cube	Cone	Sphere	Triangular Pyramid	Rectangular Prism

\_\_\_\_\_/15 points (3 points each)

Parents/Guardians,

We need your help to make the gingerbread house building experience positive for all students. Making the houses is very difficult and the more hands we have the easier it will be for the children to build their house. If you can only stop in for a little while that is great and if you can stay our entire building time that is great as well! We will be constructing our houses on Wednesday, December 12, from 10:00-12:00. Then we will be decorating our house using the geometric concepts we've learned after lunch/recess from 1:00-2:00.

In addition, I need some help in gathering extra materials. If you can send in extra materials it will help those families who can't find or afford supplies at this time. Here is list of items that our class needs:

-  Extra boxes of plain graham crackers
-  Extra containers of ready-to-spread plain white frosting
-  Additional pieces of cardboard the about the size of a piece of paper (8 1/2" x 11")
-  More empty cube boxes of Kleenex
-  Chocolate bark (white or regular chocolate)
-  Toblerone candy bars
-  Boxes of fruit roll-ups
-  Various bags of candy for the donation table

Any help would be greatly appreciated.

Thanks!

Ms. White



RETURN THIS SHEET TO MS. WHITE by FRIDAY, DEC. 7

Student's Name \_\_\_\_\_

Parent's Signature \_\_\_\_\_

Have you read all the *Geo-Bread House* information? \_\_\_\_\_

What questions do you have? \_\_\_\_\_

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If you are able to donate your time or materials please fill this portion out:

I am able to help in the classroom on this day and time:

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Yes, I am able to donate

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