

Gingerbread House Assignment

Name: _____

Description

In Teams of 1 or 2 students

Design a Gingerbread House using one sheet of paper 8.5x11

The gingerbread house design must include 4 sides and a roof.

One door and one window – You may choose the shape.

Record and label all of the dimensions in centimeters to 1 decimal place.

This is a summative assignment

Due Date: Monday Feb 13

Requirements

1. Create a pattern that can be used to make a 3 Dimensional Object.
 - a. Label the dimensions on your pattern
 - b. Label the parts (side, roof, etc.)
2. Create Orthographic Projections - of the Gingerbread House
 - a. Label the dimensions on your pattern
3. Create an Isometric Drawing of the Gingerbread House
4. Include 2 Unit conversion calculations for the dimensions from cm to inches
5. Convert measurements from the recipe to mL.

Checklist to Hand in:

- Dimensions of each construction piece on the pattern
- Orthographic projections – Plan (Top) View, Front View, Side View
- Isometric Drawing
- Dimension conversion calculation
- Recipe calculations

Rubric	Notes	Category	Mark
Pattern of the house in 2D	<ul style="list-style-type: none">• Sketch well made (neat, straight lines, etc.)• All dimensions labelled• Pieces labelled	K/U	/6
Orthographic Projections	<ul style="list-style-type: none">• Each view is properly labelled and in correct position.• Views align with each other• All parts well drawn (with ruler, straight angles)• All dimensions labelled	Ap	/6
Isometric Drawing	<ul style="list-style-type: none">• Lines are clearly drawn• All dimensions labelled	Ap	/3
Dimension conversion	<ul style="list-style-type: none">• 2 dimensions convert cm to inches• Steps are shown• Final calculations rounded to 1 decimal	Ap	/3
Recipe conversions	<ul style="list-style-type: none">• 3 ingredients are converted to mL• Steps are shown• Final calculations rounded to 1 decimal	Ap	/3
Design	Design consists of a variety of geometric shapes – square, rectangle, triangle etc. Pieces fit together to create a structure	Th	/4

Materials to bring for class

Rulers

Paper 8.5x11

Paper 8.5x14

Whiteboards

Whiteboard markers

Whiteboard erasers

Scissors

Folders for student work

Adapted from Original Assignment from Sonia Joseph

Part 2 – Measurement Conversions

Show steps to receive credit. Round final answers to 1 decimal place.

Convert 2 of your dimensions from cm to inches

Convert any 3 of the ingredients in the cookie dough recipe to mL

If you have a group of 2, EACH person will convert 3 of the ingredients to mL (1 ingredient can be common the others must be different)

Gingerbread cookie dough recipe

- 3 cups all-purpose flour
- 1 1/2 teaspoons baking powder
- 3/4 teaspoon baking soda
- 1/4 teaspoon salt
- 1 tablespoon ground ginger
- 1 3/4 teaspoons ground cinnamon
- 1/4 teaspoon ground cloves
- 6 tablespoons unsalted butter
- 3/4 cup dark brown sugar
- 1 large egg
- 1/2 cup molasses
- 2 teaspoons vanilla
- 1 teaspoon finely grated lemon zest (optional)

Conversions

1 inch = 2.54 cm

1 tablespoon = 15 mL

3 teaspoons = 15 mL

1 cup = 237 mL