

's

Dream
Bedroom
Packet

Mini-Room Assignment



Dear Fourth Graders and Families,

Our new math unit is Chapter 8: Perimeter and Area. This will offer us many real-life chances for exploration. When we complete Unit 8, the children will complete a math project in which they will design and build scale models of their “dream” bedrooms. This will be a very exciting project, and NOW is the time to start collecting!!

In math class we will learn more about specific scales and practice working in the $1/12$ scale we will be using for this project. (1 inch will be equivalent to 1 foot.) For now, you will just need to understand that a scale model is one that is smaller than whatever it is a model of by a *specified amount*. (If a bottle cap measures 1 inch, it will be equivalent to 1 foot in your dream room.)

Although it is possible to go out and buy miniature items in the scale we will be using for the projects, *we want to make as many items as possible from junk and items that might otherwise be thrown away*. In fact, the evaluation of your project will be based, in part, on how well you used your own creativity to make something out of nothing. The fewer purchased items you use, the better your evaluation will be. The other important criteria will be whether or not you stay in the scale we are working with, how original your design is and how neatly you execute your design.

To build your scale model, you will need a fairly large box (*at least 12” by 12”*). A shoebox will not be big enough. (*Sometimes stores, such as grocery stores, will give away their old boxes if you tell them that they are needed for a school project.*) We will show you a good example in class.

In addition to the box, you will need many odds and ends to help create furniture and accessories for your miniature bedroom. Once you start thinking small, your eyes will become trained to see possibilities in even the strangest of items! The following is a list to get you started. You certainly won’t need all of these things, nor will you need a great quantity of any one item.

Popsicle sticks
Bottle caps
Empty spools
Wallpaper leftovers (small prints look more to scale)
Wrapping paper in small prints
Fabric scraps
Empty containers for coffee creamers, carefully washed
String or yarn
Non-working pens and markers
Caps from old pens and markers
Colored paper clips
Beads
Wheels that have fallen off toys
Sequins
Doilies
Very small, dried flowers, pine cones or rocks
Old jewelry and broken chains
Catalogs with small picture of artwork or posters
Toothpicks
Clear plastic covers from toys, nails, etc.
Empty film containers
Small boxes for things like jewelry, matches, etc.
Mail ads for CD, movie and book clubs

If you are watching carefully for items to use, you should have a good assortment!! For now, collect and keep these items at home. We will tell you when to bring them into class.

Unlike some of the other fourth grade projects, this project will be completed almost entirely in the classroom during class time. Once we plan our rooms on paper, the students will be asked to take their box home to paint it and have a parent help to cut out windows and doors. The remainder of the work will be completed in class. While you will want to jot down ideas and rough plans for your dream bedroom, DO NOT start working on the project until we have gone over the requirements and have drawn floor plans in class. Even if you have worked with miniatures before, you won't know all the guidelines for this project until we work on it together. *Due to space constraints, please wait until asked to bring your supplies into class.*

Happy collecting,

Your 4th Grade Team

LET'S MAKE A MINI-ROOM

My Timeline for Home

Thursday	May 8 th	Bring your box to class. Your box should be at least 12" by 12". Think of the example you saw in class.
Thursday and Friday	May 8 th and May 9 th	Measure box and draw floor plan in math class.
Friday through Sunday	May 9 th – 11 th	Take box home to: <ol style="list-style-type: none"> 1. Paint the walls of your room. 2. Cut windows and doors with <u>adult help!</u> 3. Lay your flooring. This can be wood colored wallpaper, an old piece of carpet, scrap linoleum, or you may choose to paint your floor. If using carpet, cut with an adult
Monday	May 12 th	Bring painted box and all of the "stuff" you collected to school
Monday through Friday	May 12 th – 16 th	Create miniature room in math class.
Monday	May 19 th	Completed miniature room and floor plan due at school!

The only things that should be done on the box at home:

- ✓ Painting
- ✓ Cutting doors, windows, carpet

All other things should be done at school!

Cut off and return the signed slip below. Hang the calendar above somewhere safe in YOUR house.

I have read the mini-room letter/timeline and shared it with my parents.

Student Signature



Parent Signature



Real-Life Measurements

Name: _____

Directions: Measure these things in feet, to the nearest quarter inch. It's important your mini-room is to scale. Having an idea of the size of things in your own home will help with measurements for your mini-room.

What are the dimensions of a door?

What are the dimensions of a window?

How tall is a coffee table?

What are the dimensions of a bed?

How tall is the part of the couch you sit on?

How tall is the back of the couch?

How high up from the ground is the door knob?

Measure 2 other things you may want in your mini-room and write their measurements below.

1. _____ measurement: _____

2. _____ measurement: _____













Drawing Floor Plans

For our purposes, we will draw floor plans in the 1 inch equals 1 foot scale. The following guidelines must be followed when you make an architectural floor plan.

1. Outside lines should be drawn with heavy black lines.



2. Show windows in outside walls by hollowing out the heavy black lines.



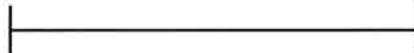
3. Inside walls are drawn with thin black lines



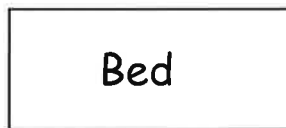
4. Doors are drawn with a diagonal line and a curve indicating the direction in which they will open.



5. Short lines perpendicular to the wall lines are used to show openings and doorways in walls.



6. Draw simple geometric shapes to represent furniture.



IMPORTANT: Use the 1 inch equals 1 foot scale for everything including furniture, windows, and doorways.

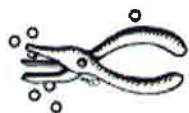
Miniature Rooms – Student Rubric

Name _____

Student: Circle “Excellent,” “Good,” “Satisfactory,” or “Poor” for each of the four categories. If you circle “Excellent,” no further information is needed. If you circle “Good,” “Satisfactory,” or “Poor,” please write how many points

<u>Floor plan</u>	<u>Excellent</u> -In Scale -Matches the room exactly -All furniture in the room is on the floor plan 25 points	<u>Good</u> 24-23 points	<u>Satisfactory</u> 22-21 points	<u>Poor</u> 20-0 points
<u>Measurements</u>	<u>Excellent</u> -To within a half inch 25 points	<u>Good</u> -To within an inch 24-23 points	<u>Satisfactory</u> -Some inaccuracy 22-21 points	<u>Poor</u> -Inaccurate or incomplete 20-0 points
<u>Appearance</u>	<u>Excellent</u> -Neatly put together - Everything is properly glued down -Shows attention to detail and careful planning 25 points	<u>Good</u> 24-23 points	<u>Satisfactory</u> 22-21 points	<u>Poor</u> 20-0 points
<u>Effort</u>	<u>Excellent</u> -Always on task - Was not distracted by classmates -Completed everything on time 25 points	<u>Good</u> 24-23 points	<u>Satisfactory</u> 22-21 points	<u>Poor</u> 20-0 points
Total:				
Comments:				

earned in that category, and a brief description of why.



Mini-Room – Completion Checklist

___ I have gone through the Floor Plan Checklist.

___ I have completed the Student Rubric.

Next, use your computer to type a half page response answering the following three questions:

- 1. What does your dream bedroom look like? Explain your room.*
- 2. What did you learn about math (area and perimeter) by completing this assignment?*
- 3. What was the most challenging part of this assignment for you?*

___ I have used my computer to type a response about my mini-room.

Miniature Rooms

Name _____

<p><u>Floor plan</u></p> <p>How accurate is your floor plan?</p>	<p><u>Excellent</u></p> <p>-In Scale -Matches the room exactly -All furniture in the room is on the floor plan 25 points</p>	<p><u>Good</u></p> <p>24-23 points</p>	<p><u>Satisfactory</u></p> <p>22-21 points</p>	<p><u>Poor</u></p> <p>20-0 points</p>
<p><u>Measurements</u></p> <p>How accurate are your measurements?</p>	<p><u>Excellent</u></p> <p>-To within a half inch -Furniture is realistic in size 25 points</p>	<p><u>Good</u></p> <p>-To within an inch -Most furniture is realistic in size 24-23 points</p>	<p><u>Satisfactory</u></p> <p>-Some inaccuracy -Some furniture is unrealistic in size 22-21 points</p>	<p><u>Poor</u></p> <p>-Inaccurate or incomplete -Furniture is mostly unrealistic in size 20-0 points</p>
<p><u>Appearance</u></p> <p>How beautiful is your dream room?</p> <p>Is it evident you did your best work?</p>	<p><u>Excellent</u></p> <p>-Neatly put together - Everything is properly glued down -Shows attention to detail and careful planning 25 points</p>	<p><u>Good</u></p> <p>24-23 points</p>	<p><u>Satisfactory</u></p> <p>22-21 points</p>	<p><u>Poor</u></p> <p>20-0 points</p>
<p><u>Effort</u></p> <p>How well did you use your class time?</p>	<p><u>Excellent</u></p> <p>-Always on task - Was not distracted by classmates -Completed everything on time 25 points</p>	<p><u>Good</u></p> <p>24-23 points</p>	<p><u>Satisfactory</u></p> <p>22-21 points</p>	<p><u>Poor</u></p> <p>20-0 points</p>
<p>Total:</p> <p>Comments:</p>				

