

House Design Blueprint Project

This project will incorporate Geometry skills by having students create the blue prints for a house.

Final Presentation: (100 Points Total)

Property (10 points): must show the outline, perimeter, and area of the entire lot

~area of the lot must be between 3,000 and 10,000 square feet (ft²)

House (10 points): must show the outline, perimeter, and area of the house

~area of the house must be between 1,500 square feet and 5,000 square feet

Driveway (5 points): must show the outline and location of the driveway

~must be between 10 and 20 feet wide

Rooms (75 points): *Show the area and perimeter of the following rooms ONLY:*

Kitchen (10 points)

~ minimum of 100 ft²; show location of sink, stove, and refrigerator

Pantry Closet ~ near kitchen (5 points)

~minimum of 8ft²

Dining Room (8 points)

~ minimum of 120 ft²

Living Room (8 points)

~minimum of 200 ft²; show location of the fireplace

2nd Bedroom (8 points)

~ minimum of 120 ft²

2nd Bathroom (8 points)

~ minimum of 75 ft²; show location of sink, tub, and toilet

Linen Closet (5 points)

Garage (8 points)

~ minimum of 250 ft²; show location of washer, dryer, & water heater

Master Bedroom with Bathroom (15 points)

~ minimum of 225 ft²; show location of sink, tub, and toilet

~Each section of the final presentation must show ALL of the work done

(even if you are using a calculator, show work such as $8' \times 12' = 96\text{ft}^2$)

~Hallways: must be 5' wide (1/2" according to the scale)

~all lines must be straight and drawn with a straight-edge or ruler

~key must be included to identify abbreviations and symbols (k = kitchen, si = sink, etc)

~ALL work must be done in pencil

~Each section of the final presentation must include the scale 1 inch = 10 feet

(ALL measurements must be within 1/16 inch)

~I strongly encourage you to keep your design as simple as possible

~Label the location of doors and windows; DO NOT show furniture or appliances

~Neatness is required and included as part of the grade

Extra Credit:

~include at least one half or semi-circle (10 points); include at least one triangle (10 points)

~shapes must be part of the property, house, or room and included in the area

~making a triangular fireplace is NOT acceptable for the extra points

Blueprint Project Scoring Rubric

Property	
~outline, perimeter, and area determined and correct (4)	10points_____
~property area is between 3,000 and 10,000 square feet (3)	
~lines are drawn to scale; area, perimeter work shown (3)	
House	
~outline, perimeter, and area determined and correct (4)	10 points_____
~house area is between 1,500 and 5,000 square feet (3)	
~lines are drawn to scale; area, perimeter work shown (3)	
Driveway	
~outline and location shown; between 10 and 20 feet wide	5 points_____
Kitchen	
~minimum area of 100ft ² ; area and perimeter determined (4)	10 points_____
~location of sink, stove, and refrigerator shown (3)	
~lines are drawn to scale; area, perimeter work shown (3)	
Pantry Closet	
~adjacent to kitchen (2)	2 points_____
Dining Room	
~minimum of 120 ft ² ; area and perimeter determined (4)	8 points_____
~lines drawn to scale; area, perimeter work shown (4)	
Living Room	
~minimum of 200 ft ² ; area and perimeter determined (3)	8 points_____
~location of fireplace shown (2)	
~lines drawn to scale; area, perimeter work shown (3)	
2 nd Bedroom	
~minimum of 120 ft ² ; area and perimeter determined (4)	8 points_____
~lines drawn to scale; area, perimeter work shown (4)	
2 nd Bathroom	
~minimum of 75 ft ² ; area and perimeter determined (3)	8 points_____
~location of sink, tub, and toilet shown (2)	
~lines drawn to scale; area, perimeter work shown (3)	
Linen Closet (2)	2 points_____
Garage	
~minimum of 250 ft ² ; area and perimeter determined (3)	8 points_____
~location of washer, dryer, and water heater shown (2)	
~lines drawn to scale; area, perimeter work shown (3)	
Master Bedroom with Bathroom	15 points_____
~minimum of 225 ft ² ; area and perimeter determined (6)	
~show location of sink, tub, and toilet (4)	
~lines drawn to scale; area, perimeter work shown (5)	
Key (6)	6 points_____
Work not done in pencil (-5)	Sub-Total_____
Lines not drawn straight (-5)	
Work not neat (-5)	Deductions_____
Windows/Doors not shown (-5)	
Furniture shown (-5)	Extra Credit_____
Dimensions not notated correctly (-5)	
	Total_____