

Name _____ Date _____

Scale Drawing Project

1. Draw a rough sketch of the classroom, including all objects with a width greater than 2 feet. Label objects as needed.
2. Measure the width of the classroom from the agenda chalkboard to the graph chalkboard. _____ inches
3. Measure the length of the classroom from the Smart Board to the lockers. _____ inches
4. Calculate the area of the classroom. _____ square inches = _____ square feet
5. Calculate the perimeter of the classroom. _____ inches = _____ feet
6. Decide on a scale to use for your blueprint. 1 square = _____ inches
7. The length of the classroom is equal to _____ squares; the width of the classroom is equal to _____ squares.
8. Measure the width of the door. _____ inches = _____ squares
9. Measure the width of one locker. _____ inches = _____ squares
10. Measure the length of the locker room from the door to the window. _____ inches = _____ squares
11. Measure the width of the locker room from the lockers to the coat hangers. _____ inches = _____ squares
12. Measure the length of the agenda chalkboard. _____ inches = _____ squares
13. Measure the length the Smart Board. _____ inches = _____ squares
14. Measure the length of a desk. _____ inches = _____ squares
15. Measure the width of a desk. _____ inches = _____ squares
16. Measure the length of the cabinets. _____ inches = _____ squares
17. Finish measuring all other objects on your rough sketch. Write down measurements (in inches) for the length and width of each object on your drawing. You will need to write small. Be sure to be neat and accurate!
18. Convert each of your measurements to the scale of your blueprint. Write these new measurements on your scale drawing rough draft. You may find it useful to make a list of objects and their measurements on a separate sheet of paper.
19. Draw the outline of the classroom on grid paper. Be sure that the number of squares you use in each direction matches your calculations on number 7.
20. Continue drawing each object in the classroom on the grid paper. Carefully check your measurements and scale.
21. Label and color.