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| Math 8 Unit Overview – Dream House | | |
| Unit Name: | Dream Houses | |
| Duration: | 1 Week | |
| Project Idea: | Students, in groups 3 or 4, will create a bulletin board display based on comparing percents, fractions, decimals and ratios | |
| IRP Standards: | Provide a context where a percent may be more than 100%or between 0% and 1%  Represent a given fractional percent using grid paper or other manipulatives  Represent a given percent greater than 100 using grid paper or other manipulatives  Determine the percent represented by a given shaded region on a grid, and record it in decimal, fractional, and percent form  Express a given percent in decimal or fractional form  Express a given decimal in percent or fractional form  Express a given fraction in decimal or percent form  Solve a given problem involving percents | |
| 21st Centuary Skills Assessed and taught  (will be used for effort assessment) | - Creating art by use analyzing design and mathematics  - Critical Thinking | |
| Driving Question: | What does your dream house look like | |
| Major Products and Performances | Individual:  A poster of the Ss dream house, written report of the house and a sheet of calculations | |
| Entry Events/Lessons | Day 1 | Show pictures and examples of dream houses, reports and calculations by students in the pas  Show the requirements and expectations of the displays |
| Day 2 -5 | Students work on the project  Teacher will work with Ss to ensure that working diligently and creatively  Display and completed dream houses |
| Assessment | Based on the “Dream House” idea introduced in BC Numercy 8. Rubrics and concept can be downloaded here http://www.bced.gov.bc.ca/perf\_stands/numerg8.pdf | |
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# Appendix A - The Assignment as Posted on the Wikipage

Your Dream House

In this assignment, you will

-Calculate area

-Estimate to verify solutions

-Draw scale diagrams

You get to design your dream house. You may do this individually or with a partner of your choice. NOTE: you may only have ONE partner.

The design should include at least a living room, a dining room, a kitchen, a bathroom, three bedrooms, and closet space.

W R I T T E N R E P O R T

-Value of the dream home

-Dimensions of each room and total living area

-Area of rooms expressed as a percentage of the total living area

-Explanation of the choice of rooms and design

-Description of house and surroundings

F O O T P R I N T

-Each room labeled and dimensions indicated

-Drawn to scale of 2 cm = 1m (1:50); indicate scale used and include correct units

-Include legend and use appropriate symbols for walls, windows, and doorways neatly drawn, outlined with a fine-liner

C A L C U L A T I O N S

-Area of each room, each floor, and entire house; perimeter of house

-Cost of house in cost per square metre

-Include formulae used

You will be marked on how neat, beautiful, mathematically correct and your how well your written work is. The assignment is out of 7.5 marks. One group will get a BONUS .5 for BEST artistry regardless of math or grammar. Another group will get .25 for SECOND BEST

This assignment was directly taken from <http://www.bced.gov.bc.ca/perf_stands/numerg8.pdf>.

If you would like examples of what students in Canada have done, please look at the link.

You will be given 4 class periods to complete this assignment.