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| Math 8 Unit Overview – Percents, Fractions, Decimals and Ratios |
| Unit Name: | Make a Bulletin Board Display |
| Duration:  | 2 Weeks |
| 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 manipulativesRepresent a given percent greater than 100 using grid paper or other manipulativesDetermine the percent represented by a given shaded region on a grid, and record it in decimal, fractional, and percent formExpress a given percent in decimal or fractional formExpress a given decimal in percent or fractional formExpress a given fraction in decimal or percent formSolve 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- Collaboration |
| Driving Question: | What are the similarities, differences and when would you use percents, decimals, fractions and ratios  |
| Major Products and Performances | Group: | A bulletin board display that will be put up on somewhere in the school.  |
| Individual: | A self-assessment based on percentages on group contribution. This will determine the final score of the product |
| Entry Events/Lessons | Day 1 | Show pictures and examples of bulletin board displays that have been created over the yearsShow the requirements and expectations of the displaysDivide into groups |
| Day 2 -7 | Students work on the projectTeacher will work with groups to ensure that groups are working collaboratively, help with the math and will finish on timeDisplay and completed bulletin boards on the first floor |
| Assessment | See Appendix B |
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# Appendix A - The Assignment as Posted on the Wikipage

Your assignment is to create a Bulletin board. The bulletin boards are approximately 115cm x 135cm.
There will be four groups:

Fractions and Percent

Decimals and Percent

Ratios and Fractions

On each bulletin board you must prove four of the things below:

-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
-Please also provide 1) a definition, and 2) how we use fractions, decimals, ratios and percent in our daily lives

Finally 1/5 of your billboard must display your title

The assignment is out of 5 marks

# Appendix B - Net’ Assignment Marking

Bulletin board Assignment

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|  | **Unsatisfactory** **1 mark**  | **Satisfactory** **2 marks**  | **Good** **3 marks**  | **Excellent** **4 marks**  |
| **Required Information and all instructions followed**  | Only one or two requirements  | 3 or 4 requirements  | 5 or 6 requirements  | All requirements  |
| **Appropriate detail and depth of knowledge**  | some details of the topic provided  | either too much or too little detail  | depth of content is appropriate for the audience  | appropriate depth makes the presentation memorable  |
| **Organization of presentation**  | ideas presented in no particular order  | most ideas ‘flow’ from one to another  | ideas are presented logically  | presentation leads the audience to a thorough understanding  |
| **Visual impact of poster**  | few images provided and explanations are sketchy  | poster has images, colour and some explanation  | images and explanations are related and easy to see  | explanations well supported by images ‐ poster captures attention of audience  |
| **Creativity in poster and presentation**  | little imagination throughout the presentation  | examples used explain the topic poorly  | examples or extensions relate well to the topic  | examples and extensions are exceptionally relevant  |