Real World Collage

Standards

Content
Students will be able to...
• Apply mathematical knowledge to real world situations
• Demonstrate relationships among geometrical concepts
• Create models of geometrical concepts
• Identify and explain relationships between points, lines, and planes
• Identify and explain relationships among angles

Process
Students will be able to...
• Explain their reasoning
• Demonstrate effective writing skills
• Organize their work

Task Description and Criteria

You are an artist and you have been asked to create a collage of “Geometry in the Real World.” You must construct this collage using real world examples of the geometrical concepts of points, lines, planes, and angle relationships. You must use pictures from ONLY magazines or the internet. You must have a real world example of every vocabulary word in the list below. It is also very important that you label each of your examples so that those admiring your work will understand what you are showing them.

Once you have created your collage, you must write a paper about it. In the paper, you must include a description of all of your examples and which vocabulary word it applies to and why.

Remember, this is a piece of art that will be displayed. Make sure it is constructed neatly and it is appealing to the eye. The more presentable your collage, the more likely someone might want to buy it for an art gallery.

Vocabulary Words you must include:

1 Point          7 Intersection of Planes
2 Line           8 Acute Angle
3 Plane          9 Obtuse Angle
4 Intersection of Point and Line 10 Straight Angle
5 Intersection of Point and Plane 11 Vertical Angles
6 Intersection of Line and Plane 12 Linear Pair
Your grade will be based on the following criteria:

- Collage made neatly
- All vocabulary words must be labeled accurately
- All vocabulary words represented with a real world example
- All real world examples are taken from a magazine or internet
- Paper has clear explanations of words and examples

## Rubric

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Poor (0 pts)</th>
<th>Fair (2 pts)</th>
<th>Good (4 pts)</th>
<th>Excellent (6 pts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collage</td>
<td>No collage created</td>
<td>Collage created but is not neatly constructed</td>
<td>Collage created and is somewhat neatly constructed</td>
<td>Collage created and is very neatly constructed and creative</td>
</tr>
<tr>
<td>Vocab Words Labeled Accurately</td>
<td>No</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Real World Examples of Vocabulary Words</td>
<td>0-3 of the vocabulary words represented by real world examples</td>
<td>4-7 of the vocabulary words represented by real world examples</td>
<td>8-11 of the vocabulary words represented by real world examples</td>
<td>All of the vocabulary words represented by real world examples</td>
</tr>
<tr>
<td>Real World Example Resources</td>
<td>Real world examples not taken from a magazine or internet</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Paper Explanation</td>
<td>No paper written</td>
<td>Paper does not explain all real world examples</td>
<td>Paper is written with an unclear explanation of real world examples</td>
<td>Paper is written well with clear explanations of real world examples</td>
</tr>
</tbody>
</table>

Total:       / 28 points