

## Real World Geometric Figures

Standard:      Students can identify and explain properties of points, lines, and planes.  
Students can identify and explain properties of segments and rays.  
Students can identify and explain properties of angles.

Task:            You will find six real world objects that represent points, lines, planes, segments, rays, and angles. The first five must separately identify a point, a line, a plane, a segment, a ray, and an angle. The sixth may represent any one of those five. For each real-world example, write a description of the object and the corresponding geometric figure, answering the following questions:

- What is your realworld object and what figure does it represent?
- What are the properties of that figure?
- How does your real-world object represent those properties.
- Is there anything about your real-world object that *doesn't* fit those properties? Be nit-picky!

Your work will be graded using the following rubric:

|                     | Unsatisfactory 0-1pt.                                                                      | Fair. 2 pts.                                                                     | Satisfactory 3 pts.                                                              | Excellent 4 pts.                                                                |
|---------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Real world objects. | Less than four real-world objects that appropriately correspond to said geometric figures. | Four real-world objects that appropriately correspond to said geometric figures. | Five real-world objects that appropriately correspond to said geometric figures. | Six real-world objects that appropriately correspond to said geometric figures. |
| Description #1      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |
| Description #2      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |
| Description #3      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |
| Description #4      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |
| Description #5      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |
| Description #6      | One or no questions are answered effectively                                               | Two questions are answered effectively .                                         | Three questions are answered effectively .                                       | All four questions are answered effectively .                                   |