

## Points, Lines, and Planes Booklet

### Standards:

- Students will be able to apply properties of points, lines, and planes

Points, lines, and planes represent some of the fundamental building blocks of all geometry. You will be creating an informational booklet that describes each of the following important elements of geometry: point, line, line segment, angle, ray, and plane. Each term should be presented on a separate page and should include the following: a complete description of the term written in your own words, a diagram, and a real-world picture that represents the term (this can be taken from a magazine or from the internet). Each real-world picture should include a caption to identify which aspect of the picture represents the term. Your booklet should be neat and well-organized.

**Rubric for the Points, Lines, and Planes Booklet:**

|   | <b>Poor</b>  | <b>Good</b>  | <b>Excellent</b>   |
|---|--|--|--|
| <b>Neatness of the booklet</b>  | Booklet is messy (e.g. difficult to read, crossed-out words, and ripped pages) (1 pt)                                    | Booklet is somewhat neat (e.g. some crossed-out words or messy writing) (2 pts)  | Booklet is very neat (e.g. typed or has neat handwriting, no ripped pages, and no crossed-out words) (3 pts) |
| <b>Booklet is well-organized</b>  | Booklet is disorganized (e.g. terms are not separated, missing many labels) (1 pt)                                       | Booklet is somewhat organized (e.g. labels are not clear, missing some headings) (2 pts)   | Booklet is very well-organized (e.g. one page for each term, has headings, and is clearly labeled) (3 pts)   |
| <b>Descriptions of the terms are correct and in student's own words</b> | Some descriptions are missing or there are large inaccuracies, or no descriptions are in student's own words (0 – 3 pts) | Each term has a description, but some are unclear or have slight inaccuracies, or they are not all in student's own words (4 – 6 pts)  | Each term has a clear and accurate description in the student's own words (7 – 8 pts)                        |
| <b>Diagrams are correct</b>   | Some diagrams are missing, or there are large inaccuracies (2 pts)   | Each term has a diagram, but they are not completely accurate and well-labeled (4 pts)   | Each term has an accurate diagram and is correctly labeled (6 pts)   |
| <b>Real-world pictures accurately represent the terms</b>               | Some pictures are missing, or many captions are missing, or the pictures do not represent the terms (1 pt)               | Each term has a real-world picture, but there are unclear captions or the pictures don't quite capture the essence of the term (3 pts) | Each term has a real-world picture that correctly represents the term and has a clear caption (5 pts)        |

Total score: \_\_\_\_\_ / 25