

**CHAPTER**  
**5** **Project Recording Sheet**  
**Plane Geometry**

**The Ultimate Playground**

Do you remember the playground equipment you played on when you were younger? Which kinds did you enjoy? Were some kinds scary? Are all of those pieces of equipment still around? Some kinds of old playground equipment are now considered too dangerous. Below is a list of some popular equipment. How many do you know about?

- Monkey bars    • Merry-go-round    • Climbing wall    • Swing
- Chin-up bar    • Bridge    • Teeter-totter    • Balance beam
- Tunnel    • Slide    • Spring toy    • Rope ladder
- Fire pole    • Ladder    • Rings    • Tire swing
- Trapeze    • Glider    • Track ride    • Platform

Copy and complete the chart below to describe the equipment you are familiar with. The first row is an example.

<b>Equipment</b>	<b>Fun/Not fun</b>	<b>Dangerous/ Not dangerous</b>	<b>Angles and Lines</b>	<b>Activity</b>
<i>Swing</i>	<i>Fun (if they are tall)</i>	<i>Less dangerous with soft seats</i>	<i>Parallel lines, right angles</i>	<i>Individual swinging</i>

Use your chart to create a description of the kind of equipment that you prefer.

Create a model of what you think is a perfect piece of playground equipment. Use toothpicks, drinking straws, pipe cleaners, and other materials. Compare your model with those of your classmates. Answer these questions to analyze your findings.

What similarities and differences do you find?

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What geometric shapes are most common? Most unusual?

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What kind of activity is the most common?

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Why do you think the results turned out the way that they did?

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