

Day 3: Map Making Project

Lesson Target: Identify and sketch **parallel**, **intersecting**, and **perpendicular lines** and line segments.

Process	Activities/Expected Students' responses	Teacher's Support
Understand the Goal	What kind of lines do you have in your map?	Prepare Vocabulary Cards prior to the lesson. parallel , intersecting , and perpendicular
Explore/ Investigate/Solve	<p>Plan A Map Making Project</p> <ol style="list-style-type: none"> 1. Decide your town's name 2. Decide 5 major avenues and name them. Avenues go straight from top to bottom 3. Decide 3 major streets and name them Streets go straight from left to right <p>Draw a map with their avenues and streets.</p> <p>Define all avenues and all streets are parallel T: What do you think parallel mean? S: All lines are lined up the same way. S: They don't touch each other. T: Parallel lines are lying in the same plane but never meeting no matter how far extended.</p> <p>Define an avenue and a street are intersecting. T: What do you think intersecting mean? S: They are crossing. S: I know the word "intersection". There are often traffic lights. T: Intersect means to cut across.</p> <p>Find right angles in intersections with Right Angle Finder T: When intersecting line has right angle, it's called Perpendicular.</p>	<p>Provide rulers</p> <p>Post a card Parallel</p> <p>Post a card Intersecting</p> <p>Post a card Perpendicular</p>
Conclude	<p>Journal Entry:</p> <ol style="list-style-type: none"> 1. Which avenues are parallel? 2. Which avenue and/or streets are intersecting? 3. Where do you observe perpendicular? 	

Assessment:

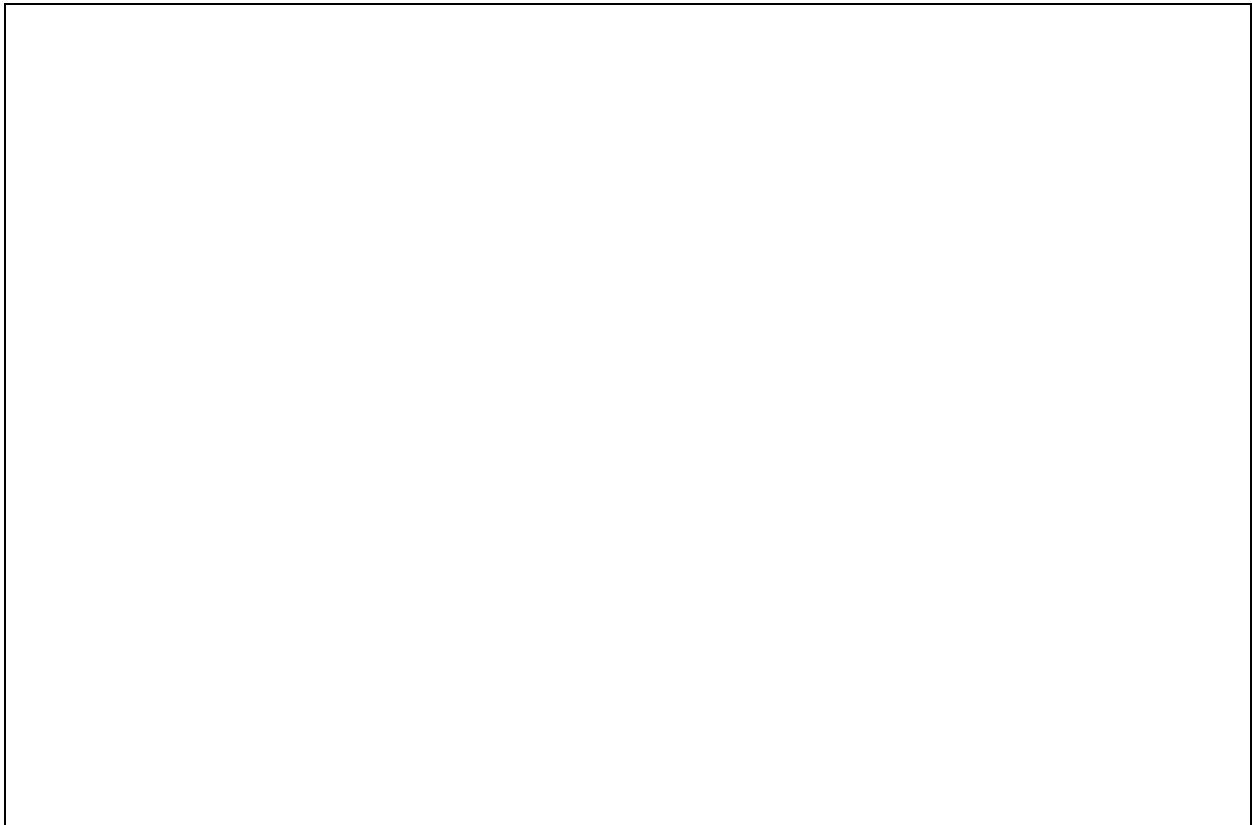
- **Identify** parallel, intersecting, and perpendicular lines on their map accurately.
- **Explain** parallel, intersecting, and perpendicular lines with their words.

A Map Making Project Planning Sheet

Name _____

My Town's Name	
1 st Major Avenue (vertical)	
2 nd Major Avenue (vertical)	
3 rd Major Avenue (vertical)	
4 th Major Avenue (vertical)	
5 th Major Avenue (vertical)	
1 st Major Street (horizontal)	
1 st Major Street (horizontal)	
1 st Major Street (horizontal)	
Major Landmarks in town (e.g. school, dentist, fire Dpt.)	

Sketch Your Town



Different Types of Lines

Name _____

Type	Intersecting lines	Parallel Lines	Perpendicular lines
Definition			
How Does it look like?			
Where is it on my map? <ul style="list-style-type: none">• Names of the avenue/street• Simple Sketch with label			

Intersecting lines

Lines that cross

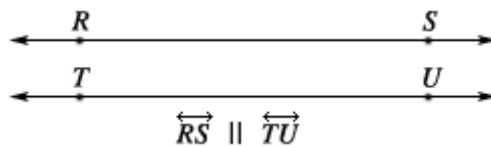
Example:



Parallel lines

Lines in a plane that never intersect

Example:



Perpendicular lines

Two lines that intersect to form four right angles

Example:

