



TEACHER PAGE

Lessons: Parallel and Perpendicular Lines

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New Arizona Math Strand 4 Geometry and Measurement **Grades 4, 6**
Articulated 4M61-O2 Draw a geometric figure showing specified properties such as, parallelism and perpendicularity. Please note that the content of these two lessons was originally developed for the old standards at grade 4. Therefore they align to:
4M41-01 Identify the properties of two-dimensional figures using appropriate terminology.

Old Arizona Math Standard 4 Geometry Essentials 2 **Grades 4-5**
PO5 Identify lines that are parallel and perpendicular

Learning Objectives: The student will be able to:

- identify parallel and perpendicular lines
- identify two-dimensional figures using the correct terminology
- explain the appropriate terminology of parallel and perpendicular

Overview of both lessons:

Students will learn to identify parallel and perpendicular lines and give or construct examples of both in these two lessons. Both lessons also have English, Navajo and Spanish narration and scripts. The Internet game in TALK ABOUT IT is challenging.

Engage students:

Use a southwest theme to draw on for models and examples of parallel and perpendicular. Some examples: fencing, corrals, barns, other structures and maps.

Content:

Students will define parallel and perpendicular as well as identify them in pictures.

Follow-up:

Students research the usefulness of parallel and perpendicular at school and at home. Students list their examples, and then discuss reasons that knowing parallel and perpendicular is important to those examples. Students would be intrigued with perspective in parallel lines that lead to a focal point. Researching art and architecture sites on the web would expand this topic beyond the identification level.

Assessment:

Students will match lines appropriately to either “parallel” or “perpendicular.”

Teacher:

This lesson can readily be expanded with ideas from the TALK ABOUT IT web site. Spanish/English math dictionary at: www.math2.org/math/spanish/eng-spa.htm

