



TEACHER PAGE

Lesson: Transformation Trio
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New Arizona Math Strand 4 Geometry and Measurement **Grades 6, 7, 8**
Articulated 4M62-01 Identify reflections and translations using pictures. **4M72-01**
Identify rotations about a point, using pictorial models. **4M82-01** Identify the planar
geometric figure that is the result of a given rigid transformation.

Old Arizona Math Standard 4 Geometry **Grades 6-8**
4ME3-PO2B Illustrate, using concrete or pictorial models B. reflections, rotations and
translations

Learning Objectives: Students will be able to:

- identify reflection, translation, and rotation models of transformation
- define the terms reflection, translation, rotation and transformation
- relate transformations to symmetry
- identify the figure created from a transformation.

Overview and Content:

In both LOOK and SEE, students will see many examples of rotation, translation and reflection transformations. Don't miss the review (explanations) of these 3 types of transformations in the SEE section. Students will practice selecting the called-for type of transformation then be able to select the figure in the correct position to finish a transformation.

Engage Students:

First, give groups of students 5-10 minutes to write their definition of transformation. Share. Then give the groups 5-10 minutes to illustrate a transformation. Then, start the lesson.

Follow-Up:

There are many web sites worth visiting in DIG DEEPER. Assign single web sites to different student groups for analysis and reporting. Trade the web sites if time permits. TALK ABOUT IT offers the idea for using transformation in code writing. SO WHAT takes a look at transformations in building totem poles. Research other art forms for uses of transformations.

Assessment:

Students will select the correct figure to complete a transformation.

