



Stained Glass Activity TEACHER TIPS



Goals: We want students to apply the geometric definitions of shapes to explore more complex designs.

Target: All targets

Description: Give students a copy of the design and ask them to name and classify types of triangles and quadrilaterals.

Notes:

- Students should use both slope and distance to verify their conjectures.
- Encourage students to consider compound shapes, such as A_1B_1LQ .
- Students may justify obtuse or acute triangles using the Pythagorean Theorem.
- Encourage students to find all appropriate names for each shape (i.e. quadrilateral, parallelogram, rectangle, rhombus, square).
- Students should understand that in this conclusions are to be based on the grid, not from the use of rulers or protractors.

Extension:

Students identify rigid transformations in the stained glass window.

This would work well as a group activity.

