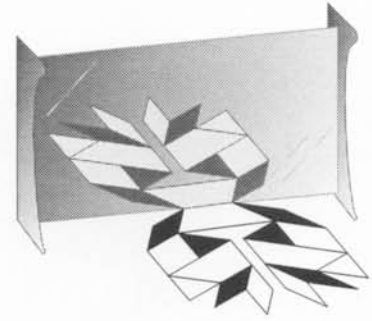


# Using the GeoReflector™

**Your kit contains:  
one GeoReflector.**



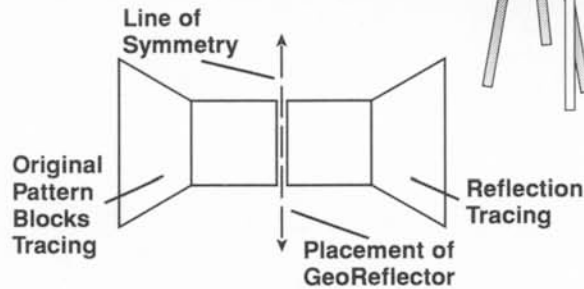
**GeoReflectors** are colorful reflective devices made of green transparent plastic. They are  $5\frac{7}{8}$ " wide x  $3\frac{3}{4}$ " high. With the special reflective surface, students can investigate reflection, symmetry, and much more. Introducing geometry concepts becomes hands-on and easier to see with the aid of the GeoReflector. Available singly or in a class set of 32.

## Common Uses of the GeoReflector

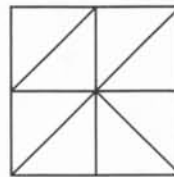
To engage students in:

- creating congruent reflections. For example, have students trace a simple design made of two or three Pattern Blocks on their paper.

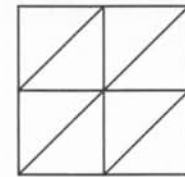
Placing their GeoReflector along one edge of the design, students reach around the GeoReflector as shown to trace the reflection of the design. Removing the GeoReflector, they can then see that they have created congruent shapes that are symmetrical about the line on which the GeoReflector was placed.



- searching for lines of symmetry. Students can position the beveled edge of the GeoReflector on a design to check for lines of symmetry. For example, Design A has no lines of symmetry but Design B has four lines of symmetry.



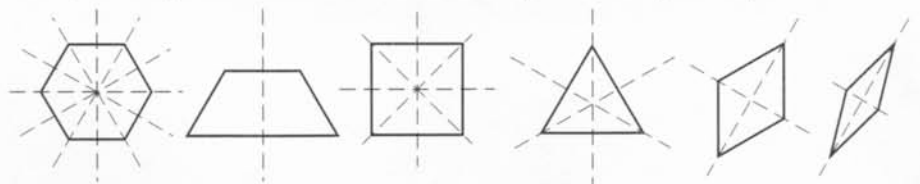
Design A



Design B

Each design is made up of the same shapes. However, in each case, the arrangement is different. Thus, the number of lines of symmetry differs.

- checking for congruence. If a shape or design contains line symmetry, then the two halves that are partitioned by a line of symmetry are congruent. For example, the GeoReflector can be placed on the lines of symmetry shown below, to verify that these Pattern Block shapes have symmetry.



The following materials will enhance mathematics instruction.

- ETA 4001 Mirror Exploration Set
- ETA 9395 Gateway to Geometry Book
- ETA 7228 Learning With™ GeoReflectors Activity Guide
- ETA 9381 Reflective Geometry with the GeoReflector Book