

# Properties of Angles & Triangles - Engaging Resources

## G SO2 - Transversals of Parallel Lines Interactive Programs

(Link: [Exploring Parallel Lines](#))

Many interesting interactive programs are available for students to explore and visualize the angles involving a transversal of parallel lines.

### Exploring Parallel Lines - Explore It

Choose a **Reference Angle** and then move the **Animation Slider** to see all the pairs of **Alternate Angles**. **Alternate Angles** are formed by a half turn about the midpoint between the parallel lines. Reset

**Explore It 1** **Explore It 2**

Angle Type

- Vertically Opposite
- Corresponding
- Alternate

Reference Angle

A	B	exterior
C	D	interior
E	F	interior
G	H	exterior

Angle Labels

ABC	123
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Parallel Line Orientation

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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A	D	E	H
108°	72°	72°	108°
B	C	F	G
72°	108°	108°	72°

**USE IT** **EXPLORE IT**

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## G SO2 - Interior and Exterior Angles of Polygons

(Link: [Interior Angles](#), [Exterior Angles](#))

Two easy to use interactive programs to explore the sum of interior and exterior angles of any polygon.

