

## Unit 2: Time Allotted: 1 week Properties of Angles and Triangles

### Assessment Standards

#### Geometry

General Outcome: Develop spatial sense

1. Derive proofs that involve the properties of angles and triangles. [CN, R, V]	<p><i>(It is intended that deductive reasoning be limited to direct proof.)</i></p> 1.1 Generalize, using inductive reasoning, the relationships between pairs of angles formed by transversals and parallel lines, with or without technology. 1.2 Prove, using deductive reasoning, properties of angles formed by transversals and parallel lines, including the sum of the angles in a triangle. 1.3 Generalize, using inductive reasoning, a rule for the relationship between the sum of the interior angles and the number of sides ( $n$ ) in a polygon, with or without technology. 1.4 Identify and correct errors in a given proof of a property that involves angles. 1.5 Verify, with examples, that if lines are not parallel, the angle properties do not apply. 1.6 Prove, using deductive reasoning, that two triangles are congruent.
2. Solve problems that involve properties of angles and triangles. [CN, PS, V]	2.1 Determine the measures of angles in a diagram that includes parallel lines, angles and triangles, and justify the reasoning. 2.2 Identify and correct errors in a given solution to a problem that involves the measures of angles. 2.3 Solve a contextual problem that involves angles or triangles. 2.4 Construct parallel lines, given a compass or a protractor, and explain the strategy used. 2.5 Determine if lines are parallel, given the measure of an angle at each intersection formed by the lines and a transversal.

### What do the Student know from Math 10-C?

Nothing

### What do Student know from Math 20-1?

Nothing

### What is Coming in Math 30-2

Nothing