**Unit 7: Congruence and Similarity Part 1**

**State Standards:**

* **NC.M2.G-CO.6:** Determine whether two figures are congruent by specifying a rigid motion or sequence of rigid motions that will transform one figure onto the other.
* **NC.M2.G-CO.7:** Use the properties of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.
* **NC.M2.G-CO.8:** Use congruence in terms of rigid motion. Justify the ASA, SAS, and SSS criteria for triangle congruence. Use criteria for triangle congruence (ASA, SAS, SSS, HL) to determine whether two triangles are congruent.
* **NC.M2.G-CO.9:**Prove theorems about lines and angles and use them to prove relationships in geometric figures.
* **NC.M2.G-CO.10:**Prove theorems about triangles and use them to prove relationships in geometric figures.
* **NC.M2.G-SRT.3:**Use transformations (rigid motions and dilations) to justify the AA criterion for triangle similarity.
* **NC.M2.G-SRT.4:**Use similarity to solve problems and to prove theorems about triangles. Use theorems about triangles to prove relationships in geometric figures.

|  |  |  |
| --- | --- | --- |
| Day 1:Tues, Apr. 24th  | Intro to Proofs (Vocab Day) | Make vocab cards for each word with pictures |
| Day 2:Wed, Apr. 25th  | Parallel Lines & Angle Relationships | HW 7-2 |
| Day 3:Thurs. Apr. 26th  | **Vocab Quiz**Triangle Sum Theorem & Exterior Angle Theorem | HW 7-3 |
| Day 4:Fri. Apr. 27th  | Proving Triangles are Similar | HW 7-4 |
| Day 5:Mon. Apr. 30th  | **Quiz on Days 3-4**Similar Triangle Proofs | HW 7-5 |
| Day 6:Tues. May 1st  | Midsegment Theorem | HW 7-6 |
| Day 7:Wed. May 2nd  | Triangle Proportionality Theorem | HW 7-7 |
| Day 8:Thurs. May 3rd  | Review for Test | Review Sheet |
| Day 9:Fri. May 4th  | **Unit 7 Test** | Unit 8 Placemat |