GSE Geometrywith Support **Unit 2 Part 3 Review Sheet** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Congruency

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| **Topic**: Corresponding Parts | **Things to Remember**:   * Triangle statement must have the SAME ORDER (follow congruent marks!) |
| **Examples**: | |
| Image result for congruent triangles | 2. |
| **Topic**: Triangle Congruency | **Things to Remember**:   * Triangles can be congruent 5 different ways: SSS, SAS, AAS, ASA, and HL |
| **Examples**: | |
| 3. by \_\_\_\_\_\_\_  C  G  F  I  H | 4. by \_\_\_\_\_\_  A  B  C  D |
| 5. bisects PN and KQ  by \_\_\_\_\_\_ | 6. Are these triangles congruent? Why or why not? |
| 7. by \_\_\_\_\_\_  Image result for sss triangles | 8. by \_\_\_\_\_\_ |
| 9. **Given**: and  What OTHER piece of information is needed to show and by ASA?  Image result for triangle abc and xyz | 10. **Given**: and  What OTHER piece of information is needed to show and by AAS?  Image result for triangle abc and xyz |
| 11. **Given**: and  What OTHER piece of information is needed to show and by SAS?  Image result for triangle abc and xyz | 12. **Given**: and  What OTHER piece of information is needed to show and by SSS?  Image result for triangle abc and xyz |
| 13. **Given**: and  What OTHER piece of information is needed to show and by SAS?  Image result for triangle abc and xyz | 14. **Given**: are right angles  What OTHER piece of information is needed to show and by HL?  Related image |

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| **Topic**: Proofs | **Things to Remember**:   * State what is given FIRST * MARK YOUR DIAGRAM! * Step 1 – Write down the givens * Step 2 – Make any marks that you know are congruent (reflexive property, vertical angles,) * Step 3 – **BUILD OFF YOUR GIVENS; YOU CANNOT ASSUME ANYTHING IF IT IS NOT TOLD TO YOU!!!** * Step 4– Statement will always be showing the Triangles are (SSS, SAS, ASA, AAS, HL |
| **Examples**:  SSS SAS ASA AAS HL Vertical Angles are  Reflexive Property Given Definition of Bisector | |
| Image result for HL congruence | 15. If D bisects AC, what can you assume? |
| 16. Are the two triangles to the left, sharing anything? If so, what are they sharing? |
| 17. Given: and    Prove:   |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. | 1. | | 2. | 2. | | 3. | 3. | | 4. | 4. | | 18. Given: bisects RV and US    Prove:   |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. | 1. | | 2. | 2. | | 3. | 3. | | 4. | 4. | | 5. | 5. | |