

| Unit 2 |  |  |  |
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| Angle Relationships |  |  |  |
| Duration |  | 15-20 days (September-October) | Assessed |
| Priority Standard(s) | G.GPE.B. 3 | Use coordinates to prove geometric theorems algebraically. |  |
|  | G.GPE.B. 4 | Prove the slope criteria for parallel and perpendicular lines and use them to solve problems. |  |
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| Supporting Standard(s) | G.co.c. 8 | Prove theorems about lines and angles. |  |
|  | G.MG.А. 3 | Apply geometric methods to solve design mathematical modeling problems. |  |


| Unit 3 |  |  |  |
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| Triangle Congruency |  |  |  |
| Duration |  | $15-17$ days (October) | Assessed |
| Priority Standard(s) | G.CO.B.7 | Develop the criteria for triangle congruence from the definition of congruence in terms of rigid motions. |  |
|  | G.Co.C. 9 | Prove theorems about triangles. |  |
| Supporting Standard(s) | G.CO.B.6 | Develop the definition of congruence in terms of rigid motions. |  |
|  | G.CO.D.11 | Make geometric constructions. |  |
|  | G.CO.C. | Prove theorems about lines and angles. |  |



## Unit 5

## Similarity and Proportions

| Duration |  | 15-16 days (Nov.-December) | Assessed |
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| Priority Standard(s) | G.SRT.A. 1 | Construct and analyze scale changes of geometric figures. |  |
|  | G.SRT.A.2 | Use the definition of similarity to decide if figures are similar and to solve problems involving similar figures. |  |
|  | G.SRT.B.4 | Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures. |  |
| Supporting Standard(s) | G.CO.C.8 | Prove theorems about lines and angles. |  |
|  | G.SRT.A.3 | Understand similarity in terms of similarity transformations. |  |



| Unit 7 |  |  |  |
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| Right Triangle Relationships |  |  |  |
| Duration |  | $13-15$ days (Feb.) | Assessed |
| Priority Standard(s) | G.co.c. 9 | Prove theorems about triangles. |  |
|  | G.SRT.C. 7 | Use trigonometric ratios and the Pyythagorean Theorem to solve right triangles. |  |
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| Supporting Standard(s) | G.SRT.C. 5 | Understand that side ratios in right triangles define the trigonometric ratios for acute angles. |  |
|  | G.SRT.C. 6 | Explain and use the relationship between the sine and cosine of complementary angles. |  |
|  | G.SRT.C. 8 | Derive the formula $\mathrm{A}=1 / 2 \mathrm{ab} \sin (\mathrm{C})$ for the area of atriangle. |  |





