**A Planning Matrix for Mathematics - Geometry**

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| **CCSS Practice Standards****CCSS Geometry Content Standards**  | 1. Make sense of problems & persevere in solving them
 | 2. Reason abstractly and quanti-tatively | 3. Construct viable argu-ments & critique the reasoning of others | 4. Model with mathe-matics | 5. Use appropriate tools strategically | 6. Attend to precision | 7. Look for and make use of structure | 8. Look for and express regularity in repeated reasoning |
| HSG.COA.1-5 – Experiment with transformations in the plane |  |  |  |  |  |  |  |  |
| HSG.COB.6-8 - Understand congruence in terms of rigid motions |  |  |  |  |  |  |  |  |
| HSG.COC.9-11 – Prove geometric theorems |  |  |  |  |  |  |  |  |
| HSG.COD.12-13 – Make geometric conversions |  |  |  |  |  |  |  |  |
| HSG.SRT.A.1-3 - Understand similarity in terms of similarity transformations |  |  |  |  |  |  |  |  |
| HSG.SRT.B.4-5 – Prove theorems involving similarity |  |  |  |  |  |  |  |  |
| HSG.SRT.C.6-8 – Define trigonometric rations and solve problems involving right triangles |  |  |  |  |  |  |  |  |
| HSG.SRT.D.9-11 – Apply trigonometry to general triangles |  |  |  |  |  |  |  |  |

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| HSG.C.A.1-4 – Understand ant apply theorems about circles |  |  |  |  |  |  |  |  |
| HSG.C.B.5 – Find arc lengths and areas of sectors of circles |  |  |  |  |  |  |  |  |
| HSG.GPE.A.1-3 – Translate between the geometric description and the equation for a conic section |  |  |  |  |  |  |  |  |
| HSG.GPE.B.4-7 – Use coordinates to prove simple geometric theorems algebraically |  |  |  |  |  |  |  |  |
| HSG.GMD.A-1-3 – Explain volume formulas and use them to solve problems |  |  |  |  |  |  |  |  |
| HSG.GMD.B.4 – Visualize relationships between two-dimensional and three-dimensional objects |  |  |  |  |  |  |  |  |
| HSG.MG.A.1-3 – Apply geometric concepts in modeling situations |  |  |  |  |  |  |  |  |

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