Instructional Flow - Unit 6 Three-Dimensional Geometry and Measurement

| 6.1 | Solid Shapes <br> - representations of three-dimensional figures using isometric grid paper |
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| 6.2 | Spatial Relationships <br> - relationships among lines, points, angles in space <br> - dihedral angles |
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| 6.3 | Prisms <br> - right and oblique prisms and their applications <br> - the diagonal of a right prism |
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| 6.4 | Coordinates in Three Dimensions <br> - plotting points in three dimensions <br> - the distance formula |
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| 6.5 | Lines and Planes in Space <br> - equations of lines and planes <br> - sketching lines and planes |
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| 6.6 (Optional Enrichment) Perspective Drawing <br> - vanishing points and perspective drawing |  |
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| 7.1 Surface Area and Volume <br>  <br> $\bullet$ <br>  ratios of surface area and volume <br>  maximizing volume while minimizing surface area and its applications |  |
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| 7.2 | Surface Area and Volume of Prisms <br> - nets and surface area <br> - Cavalieri's principle and volume |
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| 7.3 | Surface Area and Volume of Pyramids <br> - applications of surface area and volume of pyramids |
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| 7.4 | Surface Area and Volume of Cylinders <br> - applications of surface area and volume of cylinders |
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| 7.5 | Surface Area and Volume of Cones <br> - applications of surface area and volume of cones |
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| 7.6 | Surface Area and Volume of Spheres <br> - applications of surface area and volume of spheres |

