



**CORRELATION  
SUNSHINE STATE STANDARDS**

**SUBJECT: Informal Geometry**

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**SUBMISSION TITLE: Geometry Concepts and Applications © 2004**

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**PUBLISHER: Glencoe/McGraw-Hill**

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**GRADE: Grades 9 to 12 and Adult**

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**STRAND:** \_\_\_\_\_

**STANDARD 1. Demonstrate an understanding of the terminology and fundamental properties of geometry.**

| BENCHMARK   | PAGES(S) OR LOCATIONS(S)<br>WHERE TAUGHT  | I/M* |
|---|---|------|
| MA.C.2.4.1 understand geometric concepts such as perpendicularity, parallelism, <i>tangency</i> , congruency, similarity, reflections, symmetry, and transformations including flips, slides, turns, enlargements, rotations, and fractals. | SE: 122–127, 128, 155, 157, 171–172, 198–202, 205, 221, 295, 336, 407, 441, 467, 475, 520–521, 564–565, 629, 642<br><br>TWE: 122–127, 128, 155, 157, 171–172, 198–202, 205, 221, 295, 336, 407, 441, 467, 475, 520–521, 564–565, 629, 642 | I    |

**STANDARD 2. Demonstrate an understanding of inductive reasoning.**

| BENCHMARK   | PAGES(S) OR LOCATIONS(S)<br>WHERE TAUGHT  | I/M* |
|---|---|------|
| MA.C.1.4.1 use properties and relationships of geometric shapes to construct <i>formal and</i> informal proofs. | SE: 644–648, 649, 659, 660–665, 666–667, 669–671<br><br>TWE: 644–648, 649, 659, 660–665, 666–667, 669–671 | I    |

\*Indepth/Mentioned

**STANDARD 3. Demonstrate the ability to solve real-world problems by using geometric models and/or applying geometric properties.**

| <b>BENCHMARK</b>  | <b>PAGES(S) OR LOCATIONS(S)<br/>WHERE TAUGHT</b>   | <b>I/M*</b> |
|---|--|-------------|
| <p>MA.A.3.4.3 add, subtract, multiply, and divide real numbers, including square roots and exponents, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.</p>                               | <p>This objective is addressed throughout the text. See, for example:</p> <p>SE: 11, 51–52, 57, 83, 87, 139, 278, 483, 517–521, 541, 548–549, 661–663, 673, 759–761</p> <p>TWE: 11, 51–52, 57, 83, 87, 139, 278, 483, 517–521, 541, 548–549, 661–663, 673, 759–761</p> | <p>I</p>    |
| <p>MA.A.4.4.1 use estimation strategies in complex situations to predict results and to check the reasonableness of results.</p>  | <p>SE: 171, 225, 267, 347, 401, 414–417, 476, 479</p> <p>TWE: 171, 225, 267, 347, 401, 414–417, 476, 479</p>   | <p>I</p>    |
| <p>MA.B.1.4.1 use concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids, cylinders, cones, and pyramids.</p> | <p>SE: 35, 38–39, 44, 114, 415, 419–420, 426–427, 446–447, 483, 505, 507, 510, 517–521, 522–525, 529, 541, 542</p> <p>TWE: 35, 38–39, 44, 114, 415, 419–420, 426–427, 446–447, 483, 505, 507, 510, 517–521, 522–525, 529, 541, 542</p>                                 | <p>I</p>    |
| <p>MA.B.1.4.3 relate the concepts of measurement to similarity and proportionality in real-world situations.</p>  | <p>SE: 351–354, 358–361, 365–366, 368–369, 371–374, 378, 382–389, 394–398, 451, 487, 534, 615, 672</p> <p>TWE: 351–354, 358–361, 365–366, 368–369, 371–374, 378, 382–389, 394–398, 451, 487, 534, 615, 672</p>   | <p>I</p>    |

\*Indepth/Mentioned

| BENCHMARK   | PAGES(S) OR LOCATIONS(S)<br>WHERE TAUGHT  | I/M* |
|---|---|------|
| MA.B.2.4.1 select and use direct (measured) and indirect (not measured) methods of measurement as appropriate.  | SE: 55, 84, 167, 225, 288–289, 351–354, 358–361, 365–366, 368–369, 371–374, 378, 382–389, 394–398, 451, 487, 534, 615, 672<br><br>TWE: 55, 84, 167, 225, 288–289, 351–354, 358–361, 365–366, 368–369, 371–374, 378, 382–389, 394–398, 451, 487, 534, 615, 672 | I    |
| MA.B.3.4.1 solve real-world and mathematical problems involving estimates of measurements, including length, <i>time</i> , <i>weight/mass</i> , <i>temperature</i> , <i>money</i> , perimeter, area, and volume and estimate the effects of measurement errors on calculations. | SE: 225, 401, 414–417, 476, 479<br><br>TWE: 225, 401, 414–417, 476, 479   | I    |
| MA.C.3.4.1 represent and apply geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, and <i>properties of right triangle trigonometry</i> .   | SE: 554–555, 559–562, 564–565, 567–568, 570, 574, 576, 579, 580, 628, 637, 673<br><br>TWE: 554–555, 559–562, 564–565, 567–568, 570, 574, 576, 579, 580, 628, 637, 673   | I    |

**STANDARD 4. Demonstrate an understanding of transformational and coordinate geometry.**

| BENCHMARK   | PAGES(S) OR LOCATIONS(S)<br>WHERE TAUGHT  | I/M* |
|---|---|------|
| MA.C.2.4.1 understand geometric concepts such as perpendicularity, parallelism, tangency, congruency, similarity, reflections, symmetry, and transformations including flips, slides, turns, enlargements, rotations, and <i>fractals</i> . | SE: 122–127, 128, 155, 157, 171–172, 198–202, 205, 221, 295, 336, 407, 441, 467, 475, 520–521, 564–565, 629, 642<br><br>TWE: 122–127, 128, 155, 157, 171–172, 198–202, 205, 221, 295, 336, 407, 441, 467, 475, 520–521, 564–565, 629, 642 | I    |

\*Indepth/Mentioned

| <b>BENCHMARK</b>   | <b>PAGES(S) OR LOCATIONS(S)<br/>WHERE TAUGHT</b>  | <b>I/M*</b> |
|--|---|-------------|
| MA.C.3.4.2 using a rectangular coordinate system (graph), apply and algebraically verify properties of two- <i>and three</i> -dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity. | SE: 31, 52, 54, 55, 61, 63, 76–81, 83–85, 101, 174,<br>179, 182, 183, 262–267, 492, 676–680, 711, 713<br><br>TWE: 31, 52, 54, 55, 61, 63, 76–81, 83–85, 101, 174,<br>179, 182, 183, 262–267, 492, 676–680, 711, 713 | I           |

\*Indepth/Mentioned