McDougal Littell
Geometry: Concepts and Skills ©2005

correlated to the

Idaho
Content Standards
Geometry

STANDARD 1: NUMBER AND OPERATION

Goal 1.1: ***Understand numbers, ways of representing numbers, relationships among numbers and number systems.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.1.1.1 Compare and contrast the properties of numbers and number systems within the real number system to include rational and irrational numbers.

PE/TE: 88—93, 671, 702

Goal 1.2: ***Understand meanings of operations and how they relate to one another.***

No objectives at this course level.

Goal 1.3: ***Compute fluently and make reasonable estimates.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.1.3.1 Judge the reasonableness of numerical computations and their results.

PE/TE: ***N/A***

STANDARD 2: CONCEPTS AND PRINCIPLES OF MEASUREMENT

Goal 2.1: ***Understand measurable attributes of objects and the units, systems and processes of measurement.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.2.1.1 Make decisions about units that are appropriate for problems involving measurement.

PE/TE: ***N/A***

Goal 2.2: ***Apply appropriate techniques, tools and formulas to determine measurements.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.2.2.1 Understand and use formulas to calculate the perimeter, circumference, area, surface area and volume of geometric figures.

PE/TE: 424—425, 427—428, 430—434, 438—445, 446—450, 451, 452—459, 483—490, 491—498, 500—507, 510—516, 517—522, 703

STANDARD 3: CONCEPTS AND LANGUAGE OF ALGEBRA AND FUNCTIONS

No specific objectives at this course level.

STANDARD 4: CONCEPTS AND PRINCIPLES OF GEOMETRY

Goal 4.1: ***Analyze characteristics and properties of two- and three- dimensional geometric shapes and develop mathematical arguments about geometric relationships.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.4.1.1 Analyze properties and determine attributes of *two-* and *three-* dimensional objects.

PE/TE: 185—189, 192—197, 200—205, 212—217, 310—315, 325—330, 333—336, 479

G.4.1.2 Explore congruence and similarity among classes of two dimensional objects and solve problems involving them.

PE/TE: 88—93, 233—239, 240, 241—248, 250—256, 257—262, 264, 265—271, 365—371, 372—377, 279—385, 393—398, 433—436

G.4.1.3 Establish the validity of geometric conjecture using inductive and deductive reasoning.

PE/TE: 8—13, 43, 127, 141, 150, 191, 386, 392, 399, 439, 594, 613, 626

G.4.1.4 Apply trigonometric relationships to determine lengths and angle measures.

PE/TE: 557—562, 563—568, 569—574

Goal 4.2: ***Specify locations and describe spatial relationships using coordinate geometry and other representational systems.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.4.2.1 Use Cartesian coordinates to analyze geometric situations.

PE/TE: 30—33, 55—58, 153—158, 193—197, 283, 286, 322, 399, 444, 590—593

G.4.2.2 Solve problems involving two dimensional objects represented with Cartesian coordinates.

PE/TE: 58, 154, 157, 159, 322, 399

Goal 4.3: ***Apply transformations and use symmetry to analyze mathematical situations.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.4.3.1 Understand and represent translations, reflections dilations and rotations of objects in the plane.

PE/TE: 152—158, 163, 281, 282—283, 286—287, 289, 295, 393—397, 399, 633—638, 645

Goal 4.4: ***Use visualization, spatial reasoning and geometric models to solve problems.***

Objective(s): *By the end of Geometry, the student will be able to:*

G.4.4.1 Draw and construct representations of two dimensional geometric objects using a variety of tools.

PE/TE: 102—103, 187, 216, 241, 306, 331, 393, 414, 416, 435, 449, 548, 554, 556, 567

STANDARD 5: DATA ANALYSIS, PROBABILITY AND STATISTICS

No objectives at this course level.

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