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APPENDIX A – Glossary - Contains definitions for 116 math terms used in the Geometry Course.

APPENDIX B – Geometry Facts and Theorems

Introduction

Core Math: Geometry Course addresses key geometry concepts regarding the types and properties of plane and solid shapes, angle theorems, transformation of shapes, and geometric constructions. The subjects in this course include types of lines and angles, measuring angles, intersections and parallels, opposite angles, alternate angles, supplementary angles, complementary angles, angle theorems, solving angle problems, types and properties of triangles, angles in triangles, triangle angle theorems, types and properties of plane shapes such as quadrilaterals, polygons, regular polygons, circles and ellipses, geometric constructions, properties of similar and congruent shapes, transformation of shapes such as translations, rotations, reflections, and magnifications, uses of transformations such as symmetry and tessellations, types and properties of solid shapes including cubes, prisms, pyramids, cones, cylinders, and spheres, and construction and slices of solid shapes. The learning objectives align to US national curriculum standards for grades 1 to 10. Completion time is estimated at 40 hours.

The learning objectives align to US national curriculum standards for grades 1 to 10 including Common Core Math Standards for Kindergarten: K.G.3, K.G.4, for grade 1: 1.G.1, 1.G.2, for grade 3: 1.G.1, for grade 4: 4.G.1, 4.G.2, 4.G.3, 4.MD.5, 4.MD.5.a, 4.MD.5.b, 4.MD.6, 4.MD.7, for grade 5: 5.G.3, 5.G.4, 5.NF.5.a, 5.NF.5.b, for grade 6: 6.G.4, for grade 7: 7.G.1, 7.G.2, 7.G.3, 7.G.5, for grade 8: 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, 8.G.4, 8.G.5, 8.G.6, 8.G.7, and for high school: G.CO.1, G.CO.3, G.CO.5, G.CO.6, G.CO.7, G.CO.10, G.CO.12, G.C.1, G.C.2, G.C.3, G.SRT.2, G.SRT.3, G.SRT.5.

The **Core Math: Geometry Course** has 38 lessons organized in 8 Units. Each of the thirty-eight lessons contain audio-supported on-screen instruction and a printable practice sheet with exercises and activities. Each lesson Quiz contains 6 questions generated from a set of 10 questions. Each of the eight Unit Tests contain three questions for each lesson in that Unit from a set of ten questions per lesson. There are 492 instruction screens, 147 practice sheet pages, 21 reference pages, and 760 test questions for a total of 1420 total learning objects in the **Core Math: Geometry Course**.

Unit 1: Lines and Angles

Lesson 1: Lines

Common Core Standards

- 4.G.1, 4.MD.5, 4.MD.5.a, 4.MD.5.b, G.CO.1

Learning Objectives

- to learn about rays and line segments

Defined Vocabulary Words

- point, line, ray, line segment

Lesson Components

Total Learning Objects – 14

Instruction Pages - 10

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Measuring Angles

Common Core Standards

- 4.MD.5, 4.MD.5.a, 4.MD.5.b, 4.MD.6, 4.MD.7

Learning Objectives

- to learn about angle rotation and degrees

Defined Vocabulary Words

- vertex, size of angle, degrees, protractor

Lesson Components

Total Learning Objects – 29

Instruction Pages – 23

Activity Pages - 6

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Types of Angles

Common Core Standards

- 4.MD.5, 4.MD.5.a, 4.MD.5.b, 4.MD.6, 4.MD.7

Learning Objectives

- to learn about types of angles

Defined Vocabulary Words

- acute angle, obtuse angle, reflex angle, supplementary angle, complementary angle

Lesson Components

Total Learning Objects – 19

Instruction Pages – 14

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 2: Intersections and Parallels

Lesson 1: Intersecting Lines

Common Core Standards

- 4.G.1, 4.G.2, G.CO.1

Learning Objectives

- to learn about the Opposite Angle Theorem

Defined Vocabulary Words

- perpendicular, perpendicular lines, opposite angle theorem

Lesson Components

Total Learning Objects – 18

Instruction Pages - 15

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 40 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Equal Angles**Common Core Standards**

- 4.MD.7, 7.G.5, 8.G.5, G.CO.1

Learning Objectives

- to learn about the Alternate Angle Theorem

Defined Vocabulary Words

- parallel lines, transversal, alternate angles, alternate angle theorem, corresponding angles

Lesson Components

Total Learning Objects – 23

Instruction Pages – 20

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 40 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Supplementary Angles**Common Core Standards**

- 4.MD.7, 7.G.5, 8.G.5, G.CO.1

Learning Objectives

- to learn about the Interior Angle Theorem

Defined Vocabulary Words

- interior angles, interior angle theorem

Lesson Components

Total Learning Objects – 11

Instruction Pages – 7

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 40 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Problem Solving

Common Core Standards

- 4.MD.7, 8.G.5

Learning Objectives

- to learn how to apply angle theorems to solve for missing angles

Defined Vocabulary Words

- decimal point

Lesson Components

Total Learning Objects – 16

Instruction Pages – 11

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 40 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 3: Triangles

Lesson 1: Triangles

Common Core Standards

- K.G.3, K.G.4, 1.G.1, 1.G.2, 2.G.1, 3.G.1, 4.G.1, 4.G.2, 5.G.3, 5.G.4, 7.G.2.

Learning Objectives

- to learn about the angle properties of some types of triangles

Defined Vocabulary Words

- triangle, vertex, interior angle, compass, arc, acute triangle, right triangle, obtuse triangle

Lesson Components

Total Learning Objects – 23

Instruction Pages - 19

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Special Triangles

Common Core Standards

- 4.G.2, 5.G.3, 5.G.4, 7.G.2.

Learning Objectives

- to learn about the side length properties of certain types of triangles

Defined Vocabulary Words

- equilateral triangle, isosceles triangle, scalene triangle, isosceles triangle theorem

Lesson Components

Total Learning Objects – 17

Instruction Pages – 13

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions - 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Triangle Angle Sum Theorem**Common Core Standards**

- 8.G.5, G.CO.10

Learning Objectives

- to learn about the Triangle Angle Sum Theorem

Defined Vocabulary Words

- triangle angle sum theorem

Lesson Components

Total Learning Objects – 15

Instruction Pages – 12

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Exterior Angle Sum Theorem**Common Core Standards**

- 8.G.5, G.CO.10.

Learning Objectives

- to learn about the Exterior Angle Sum Theorem

Defined Vocabulary Words

- exterior angle, exterior angle sum theorem

Lesson Components

Total Learning Objects – 13

Instruction Pages - 10

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Problem Solving

Common Core Standards

- 8.G.5

Learning Objectives

- to learn how to solve for missing angles using triangle theorems

Defined Vocabulary Words

- alternate angle theorem, corresponding angle theorem, interior angle theorem, opposite angle theorem, isosceles triangle theorem, triangle angle sum theorem, exterior angle sum theorem

Lesson Components

Total Learning Objects – 27

Instruction Pages – 24

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 6: Pythagorean Theorem

Common Core Standards

- 8.G.6, 8.G.7

Learning Objectives

- to learn about the Pythagorean Theorem

Defined Vocabulary Words

- hypotenuse, square root, Pythagorean Theorem

Lesson Components

Total Learning Objects – 21

Instruction Pages - 16

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 60 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 4: Plane Shapes

Lesson 1: Quadrilaterals

Common Core Standards

- K.G.3, K.G.4, 2.G.1, 3.G.1, 5. 4.G.1, 4.G.2, G.3, 5.G.4, 7.G.2

Learning Objectives

- to learn about the properties of quadrilaterals

Defined Vocabulary Words

- plane, quadrilateral, vertex, diagonal, interior angles, rhombus, square, rectangle, parallelogram, trapezoid

Lesson Components

Total Learning Objects – 24

Instruction Pages - 19

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Polygons**Common Core Standards**

- K.G.3, K.G.4, 2.G.1, 3.G.1, 5.G.3, 5.G.4, 7.G.2

Learning Objectives

- to learn about polygons

Defined Vocabulary Words

- polygon, vertex, pentagon, hexagon, heptagon, octagon, nonagon, decagon

Lesson Components

Total Learning Objects – 15

Instruction Pages – 11

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Regular Polygons**Common Core Standards**

- K.G.3, K.G.4, 2.G.1, 3.G.1, 5.G.3, 5.G.4, 7.G.2

Learning Objectives

- to learn about the properties of regular polygons

Defined Vocabulary Words

- regular polygon, pentagon, hexagon, heptagon, octagon, nonagon

Lesson Components

Total Learning Objects – 11

Instruction Pages – 8

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Circles

Common Core Standards

- K.G.3, K.G.4, 1.G.1, 1.G.2, 5.G.3, 5.G.4, 7.G.2, G.C.2

Learning Objectives

- to learn about the parts of a circle

Defined Vocabulary Words

- circle, radius, diameter, chord, circumference, arc, segment, sector

Lesson Components

Total Learning Objects – 14

Instruction Pages - 11

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Ellipses

Common Core Standards

- 5.G.3, 5.G.4

Learning Objectives

- to learn about parts of an ellipse

Defined Vocabulary Words

- ellipse, chord, major axis, minor axis, line of symmetry

Lesson Components

Total Learning Objects – 19

Instruction Pages - 14

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 5: Constructions

Lesson 1: Angle Bisectors**Common Core Standards**

- G.CO.12

Learning Objectives

- to learn how to construct an angle bisector

Defined Vocabulary Words

- angle bisector, proof, congruent triangles

Lesson Components

Total Learning Objects – 15

Instruction Pages - 11

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Perpendiculars from a Line**Common Core Standards**

- G.CO.1, G.CO.12

Learning Objectives

- to learn how to construct a perpendicular from a line

Defined Vocabulary Words

- perpendicular, perpendicular lines

Lesson Components

Total Learning Objects – 15

Instruction Pages – 11

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Perpendiculars to a Line**Common Core Standards**

- G.CO.1, G.CO.12

Learning Objectives

- to learn how to construct a perpendicular to a line

Defined Vocabulary Words

- perpendicular, hypotenuse

Lesson Components

Total Learning Objects – 16

Instruction Pages - 13

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Right Bisectors**Common Core Standards**

- G.CO.1, G.CO.12

Learning Objectives

- to learn how to construct right bisectors

Defined Vocabulary Words

- right bisector, midpoint

Lesson Components

Total Learning Objects – 16

Instruction Pages – 10

Activity Pages - 6

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: The Circumcircle**Common Core Standards**

- G.CO.12, G.C.3

Learning Objectives

- to learn how to construct a circumcircle

Defined Vocabulary Words

- circumcircle, incircle, circumcenter, incenter

Lesson Components

Total Learning Objects – 16

Instruction Pages - 12

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 6: The Incircle**Common Core Standards**

- G.CO.12, G.C.3

Learning Objectives

- to learn how to construct an incircle

Defined Vocabulary Words

- incircle, inradius, incenter

Lesson Components

Total Learning Objects – 12

Instruction Pages – 9

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 7: Parallel Lines**Common Core Standards**

- G.CO.1, G.CO.12

Learning Objectives

- to learn how to construct parallel lines

Defined Vocabulary Words

- parallel lines

Lesson Components

Total Learning Objects – 14

Instruction Pages – 11

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 70 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 6: Transformation of Shapes**Lesson 1: Congruency****Common Core Standards**

- 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, G.CO.6, G.CO.7

Learning Objectives

- to learn about the properties of congruent shapes

Defined Vocabulary Words

- congruent

Lesson Components

Total Learning Objects – 13

Instruction Pages - 9

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Translations

Common Core Standards

- 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, G.CO.5

Learning Objectives

- to learn about translations of shapes

Defined Vocabulary Words

- transformations, translations, prime, pre-image, image

Lesson Components

Total Learning Objects – 14

Instruction Pages – 10

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Reflections

Common Core Standards

- 4.G.3, 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, G.CO.3, G.CO.5

Learning Objectives

- to learn about reflections of shapes

Defined Vocabulary Words

- reflection, mirror, orientation

Lesson Components

Total Learning Objects – 17

Instruction Pages – 11

Activity Pages - 6

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Rotations

Common Core Standards

- 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3, G.CO.3, G.CO.5

Learning Objectives

- to learn about rotations of shapes

Defined Vocabulary Words

- rotation, center of rotation, angle of rotation

Lesson Components

Total Learning Objects – 10

Instruction Pages - 6

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Magnifications**Common Core Standards**

- 5.NF.5.a, 5.NF.5.b, 7.G.1, 8.G.1, 8.G.1.a, 8.G.1.b, 8.G.1.c, 8.G.2, 8.G.3

Learning Objectives

- to learn about the magnification and dilation of shapes

Defined Vocabulary Words

- magnification, magnification factor

Lesson Components

Total Learning Objects – 1

Instruction Pages - 9

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 7: Uses of Transformations**Lesson 1: Similarity****Common Core Standards**

- 8.G.4, G.C.1, G.SRT.2, G.SRT.3, G.SRT.5

Learning Objectives

- to learn about the properties of similar shapes

Defined Vocabulary Words

- similar

Lesson Components

Total Learning Objects – 28

Instruction Pages - 23

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Reflective Symmetry**Common Core Standards**

- 4.G.3, 8.G.4

Learning Objectives

- to learn about reflective symmetry

Defined Vocabulary Words

- symmetry, reflective symmetry, lines of symmetry

Lesson Components

Total Learning Objects – 14

Instruction Pages – 11

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Rotational Symmetry**Common Core Standards**

- 8.G.4

Learning Objectives

- to learn about rotational symmetry

Defined Vocabulary Words

- rotational symmetry, center of symmetry, full turn

Lesson Components

Total Learning Objects – 14

Instruction Pages - 11

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Tessellations I**Common Core Standards**

- 8.G.4

Learning Objectives

- to learn about the properties of tessellated or tiled shapes

Defined Vocabulary Words

- tessellation, tiles

Lesson Components

Total Learning Objects – 15

Instruction Pages – 12

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Tessellations II**Common Core Standards**

- 8.G.4

Learning Objectives

- to learn about the tessellation of parallelograms and distorted parallelograms

Defined Vocabulary Words

- translation, reflection, rotation

Lesson Components

Total Learning Objects – 13

Instruction Pages – 9

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 8: Solid Shapes**Lesson 1: Cubes, Prisms, Pyramids****Common Core Standards**

- K.G.3, K.G.4, 1.G.1, 1.G.2, 2.G.1, 3.G.1, 7.G.3

Learning Objectives

- to learn about the properties of straight-edged solid shapes

Defined Vocabulary Words

2-dimensional, 3-dimensional, polyhedron, faces, edges, vertex, side lengths, cube, parallelepiped, rectangular parallelepiped, prism, pyramid, apex

Lesson Components

Total Learning Objects – 25

Instruction Pages - 22

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Cylinders, Cones, Spheres**Common Core Standards**

- K.G.3, K.G.4, 1.G.1, 1.G.2, 2.G.1, 3.G.1, 7.G.3

Learning Objectives

- to learn about the types of curved solid shapes

Defined Vocabulary Words

- cylinder, cone, sphere

Lesson Components

Total Learning Objects – 19

Instruction Pages – 16

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Constructing Solid Shapes**Common Core Standards**

- 6.G.4, 7.G.3

Learning Objectives

- to learn about the properties of curved solid shapes

Defined Vocabulary Words

- net

Lesson Components

Total Learning Objects – 20

Instruction Pages – 15

Activity Pages - 5

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 30 total questions; 10 total per Lesson of which 3 are randomly selected to populate test