



Independent School District of Boise City Curriculum Map

Mathematics in the Workplace Geometry

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Scope and Sequence Summary

Math Vocabulary	<i>Ongoing</i>
Pts., Lines, Planes, and Angles	3 weeks
Reasoning and Proof	2.5 weeks
Parallel Lines and Transversals	3 weeks
Lines in the Coordinate Plane	3 weeks
Triangles and Quadrilaterals	3.5 weeks
Cong. Triangles/Transformations	3.5 weeks
Proportions and Similarity	2 weeks
Right Triangles	3 weeks
Perimeter and Area	3 weeks
Circles and Spheres	3.5 weeks
Surface Area and Volume	2.5 weeks

<u>Test</u>	<u>Window</u>
Idaho State Achievement Test	
Geometry EOC	End of 1 st Semester
ISAT	Late Apr.- May
Geometry EOC	End of 2 nd Semester

Mathematics in the Workplace Geometry

1st Semester

Ch 1: Points, Lines, Planes, and Angles

Ch 2: Reasoning and Proof

Ch 3: Parallel, Perpendicular lines and Transversals

Ch 4: Point and Lines in the Coordinate Plane

Ch 5: Triangles and Quadrilaterals

Ch 6.1-6.4: Congruent Triangles

2nd Semester

Ch 6.5-6.9: Transformations

Ch 7: Proportions and Similarity

Ch 8: Right Triangles

Ch 9: Perimeter and Area

Ch 10: Circles and Spheres

Ch 11: Volume and Surface Area

Similar EOC Questions for Work Place Geometry Semester One

(The number of review questions does not reflect the number of test questions)

			Updated 6/10/09
Chapter	Question	Page	Problems
	1	5	4-10
	2	134	7-11
	3	18	1-8
	4	22	5-12
	5	22	1-4
	6	23	13-16
	7	26	4-8
	8	31	5
	9	39	1-5
	10	40	11-15
	11	41	Euclids 5 Postulates
	12	75	5-12
	13	71	6-15
	14	94	1-12
	15	134	12-14
	16	134	1-6
	17	119	6-9
	18	126	13-17
	19	Supplement	Equations of parallel lines
	20	Supplement	Equations of perpendicular lines
	21	130	11-20
	22	165	7-16
	23	165	15
	24	165	14, 16, 17
	25	167	Names of Polygons sides 3-10
	26	177	4
	27	98	1-10
	28	196	3-6
	29	206	1-5
	30	206	1-5
	31	206	1-5
	32	178	11
	33	172	Def of Perpendicular Bisector
	34	177	5
	35	202	5-10

	36	106	Example 7	
	37	44	2	
	38	165	7-15	
	39	85	Def of a trapezoid	
	40	81	Def of a parallelogram	
	41	148	1-10	
	42	153	1-3, 11-20	
	43	97	1-10	
	44	84	1-9	
	45	206	1-5	
	46	177	1-3	
	47	14	7-9	
	48	26	4-8	
	49	79	1-6	
	50	79	1-6	

Similar EOC Questions for Work Place Geometry Semester Two

(The number of review questions does not reflect the number of test questions)

Updated 6/10/09

Chapter	Question	Page	Problems
	1	218	1-6
	2	220	8
	3	223	1-7
	4	226	1-6
	5	240	1-10
	6	241	11-20
	7	241	21-30
	8	245	1-5
	9	251	1-10
	10	256	1-3
	11	261	11-15
	12	262	Example 3
	13	281	14-20
	14	281	14-20
	15	285	6-15
	16	289	4-9
	17	289	10-15
	18	292	1-5
	19	297	1-5
	20	297	6-10
	21	301	1-10
	22	312	1-3
	23	312	4-7
	24	315	1-8
	25	325	16-18
	26	334	6-20
	27	346	1-10
	28	346	1-10
	29	346	11-12
	30	359	11-15
	31	360	Def of Central Angle
	32	363	9-10
	33	363	1-5
	34	363	1-5
	35	363	6-8

	36	371	1-10	
	37	371	1-10	
	38	371	1-10	
	39	384	Def. of a Prism	
	40	375	7-12	
	41	375	7-12	
	42	386	1-4	
	43	395	1	
	44	406	10	
	45	406	11	
	46	391	14	
	47	398	1	
	48	406	12	
	49	406	13	
	50	364	Def. of a tangent	

Workplace Geometry
Vocabulary
Semester One

Chapter 1

collinear
endpoints
geometry
line
line segment
plane
point
ray
postulate
angle
angle bisector
arc
bisect
compass
construction
vertex
acute angle
degree
obtuse angle
perpendicular lines
protractor
right angle
straight angle
adjacent angles
complementary angles
intersect
supplementary angles
vertical angles
base
exponent
linear pair
segment notation

Chapter 2

conclusion
condition
conditional
converse
hypothesis
axiom

given
proof
prove
theorem
common factor
distributive property
factor

Chapter 3

coplanar
parallel lines
skew lines
alternate exterior angles
alternate interior angles
corresponding angles
exterior angle
interior angle
transversal
indirect proof
parallelogram
quadrilateral
rectangle
rhombus
square
isosceles
scalene
trapezoid
legal
equation
variable
base angles of an isosceles
trapezoid
legs of trapezoid

Chapter 4

coordinate plane
graph
horizontal
ordered pair
origin
quadrant
vertical
slope of a line
undefined
domain
function

range
y-intercept
bisect
midpoint
rate

Chapter 5

equilateral triangle
isosceles triangle
scalene triangle
acute triangle
obtuse triangle
right triangle
counterexample
parallelogram
rectangle
rhombus
trapezoid
diagonal
concave polygon
convex polygon
polygon
regular polygon
perpendicular bisector
altitude
centroid
in-center
median
orthocenter
corollary
exterior angle
binomial
nnnnn

Chapter 6

congruent
congruent angles
congruent segments
congruent triangles
corresponding angles
hypotenuse
image
line of reflection
line of symmetry
transformation
translation
rotation
quadratic equation

Workplace Geometry
Vocabulary
Semester Two

Chapter 6

congruent
congruent angles
congruent segments
congruent triangles
corresponding angles
hypotenuse
image
line of reflection
line of symmetry
transformation
translation
rotation
quadratic equation
pre-image

Chapter 7

diameter
proportion
ratio
ratio of similarity
similar
similar triangles
perimeter
radius
center of the dilation
dilation
transform
factorial
fund. counting principle

Chapter 8

integer
pythagorean triple
area
Equiangular triangle
Average
Geometric mean
rational number

Chapter 9

perimeter of a polygon

average base
midsegment of a trapezoid(average base)
inequality
linear equation
apothem

Chapter 10

chord
circle
circumference
diameter
quadrant
radius
probability
arc
central angle
inscribed angle
intercepted arc
sector
angle bisector
circumcenter
circumcircle
equidistant
incircle
secant line
secant segment
semi-circle
tangent line
point of tangency
concentric circle
major arc
minor arc
locus of points
perpendicular bisector
point of tangency
tangent
cosine
sine
tangent
angle of elevation
angle of depression
arc length
trigonometry
unit circle
great circle

hemisphere
poles
sphere
system of linear equations
pi (π)
irrational number

Chapter 11

prism
volume
cone
pyramid
net
face
right prism
slant height
capacity
customary
metric
radical
radicand
lateral area
scale factor

Mathematics in the Workplace Geometry

Materials Needed for the End of Course Test

1st Semester - Calculator Allowed

2nd Semester – Calculator Allowed

Semester One Syllabus		Mathematics in the Workplace Geometry (AGS)	
Date	Event Sequence	Lecture/Discussion Topics	Suggested Assignments
Aug-23			
Aug-24			
Aug-25	First Day	Intro To Class-Pass Out Books/Supplies/Class Rules	
Aug-26	Chapter 1 (1.1-1.7)	Lesson 1.1	
Aug-27		Lesson 1.2	
Aug-30		Lesson 1.3 Day One	
Aug-31		Lesson 1.3 Day Two	
Sep-1		Lesson 1.4	
Sep-2		Lesson 1.5 Day One	
Sep-3		Lesson 1.5 Day Two	
Sep-6	Labor Day-Holiday	No School	
Sep-7		Activity/Review/Catch-Up Day	
Sep-8		Lesson 1.6 Day One	
Sep-9		Lesson 1.6 Day Two Linear Pair Supplement	
Sep-10		Lesson 1.7	
Sep-13		Review	
Sep-14		Chapter 1 Test	
Sep-15	Chapter 2 (2.1-2.6)	Lesson 2.1 Day One	
Sep-16		Lesson 2.1 Day Two	
Sep-17		Lesson 2.2	
Sep-20		Lesson 2.3	
Sep-21		Activity/Review/Catch-Up Day	
Sep-22		Lesson 2.4	
Sep-23		Lesson 2.5 Day One	
Sep-24		Lesson 2.5 Day Two	
Sep-27		Lesson 2.6	
Sep-28		Review Chapter 2	
Sep-29		Chapter 2 Test	
Sep-30	Chapter 3 (3.1-3.9)	Lesson 3.1	
Oct-1		Lesson 3.2 Day One	
Oct-4		Lesson 3.2 Day Two	
Oct-5		Lesson 3.3	
Oct-6		Lesson 3.4 Day One	
Oct-7	State Workshop	No School For Students	
Oct-8	State Workshop	No School For Students	
Oct-11		Lesson 3.4 Day Two	
Oct-12		Activity/Review/Catch-Up	
Oct-13		Lesson 3.5 Day One	
Oct-14		Lesson 3.5 Day Two	
Oct-15		Lesson 3.6 add vocabulary legs and bases of trapezoid	
Oct-18		Lesson 3.7	
Oct-19		Activity/Review/Catch-Up Day	
Oct-20		Lesson 3.8 Day One	
Oct-21		Lesson 3.8 Day Two	
Oct-22		Lesson 3.9	
Oct-25		Review	
Oct-26		Chapter 3 Test	
Oct-27	Chapter 4 (4.1-4.8)	Lesson 4.1	
Oct-28		Lesson 4.2/4.3	
Oct-29	End of 1st Quarter	Flex Day	
Nov-1		Lesson 4.4 Day One	
Nov-2		Lesson 4.4 Day Two-Supplement Parallel and Perpendicular Slopes	
Nov-3		Lesson 4.5 Day One	
Nov-4		Lesson 4.5 Day Two	
Nov-5	District In-service	No School For Students	
Nov-8		Lesson 4.6 Day One	
Nov-9		Lesson 4.6 Day Two-Supplement Parallel Line Equations	
Nov-10		Activity/Review/Catch-Up Day	

Nov-11		Lesson 4.6 Day Three-Supplement Perpendicular Line Equations	
Nov-12		Lesson 4.7	
Nov-15		Lesson 4.8	
Nov-16		Review	
Nov-17		Chapter 4 Test	
Nov-18		Lesson 5.1	
Nov-19		Lesson 5.2	
Nov-22	Thanksgiving-Holiday	No School	
Nov-23	Thanksgiving-Holiday	No School	
Nov-24	Thanksgiving-Holiday	No School	
Nov-25	Thanksgiving-Holiday	No School	
Nov-26	Thanksgiving-Holiday	No School	
Nov-29	Chapter 5 (5.1-5.10)	Lesson 5.3 Day One	
Nov-30		Lesson 5.3 Day Two	
Dec-1		Lesson 5.4	
Dec-2		Lesson 5.5	
Dec-3		Activity/Review/Catch-Up Day	
Dec-6		Lesson 5.6 Day One Total Degrees in polygons	
Dec-7		Lesson 5.6 Day Two-Supplement Finding Each Interior/Exterior	
Dec-8		Lesson 5.7	
Dec-9		Lesson 5.8 Day One	
Dec-10		Lesson 5.8 Day Two	
Dec-13		Lesson 5.9	
Dec-14		Lesson 5.10	
Dec-15		Chapter 5 Review	
Dec-16		Chapter 5 Test	
Dec-17	Early Release		
Dec-20	Winter Break-Holiday	No School	
Dec-21	Winter Break-Holiday	No School	
Dec-22	Winter Break-Holiday	No School	
Dec-23	Winter Break-Holiday	No School	
Dec-24	Winter Break-Holiday	No School	
Dec-27	Winter Break-Holiday	No School	
Dec-28	Winter Break-Holiday	No School	
Dec-29	Winter Break-Holiday	No School	
Dec-30	Winter Break-Holiday	No School	
Dec-31	Winter Break-Holiday	No School	
Jan-3	Chapter 6 (6.1-6.4)	Lesson 6.1	
Jan-4		Lesson 6.2	
Jan-5		Lesson 6.1-6.2 Review	
Jan-6		Lesson 6.3	
Jan-7		Lesson 6.4	
Jan-10		Lesson 6.1-6.4 Review	
Jan-11		6.1-6.4 Test/Quiz or EOC Review	
Jan-12		EOC Review	
Jan-13		EOC Review	
Jan-14		EOC Review	
Jan-17	MLK Jr. Day-Holiday	No School	
Jan-18		EOC Review	
Jan-19	Semester Test		
Jan-20	Semester Test		
Jan-21	Semester Test		

Semester Two Syllabus Math In the Workplace Geometry (AGS)

Date	Exam	Lecture/Discussion Topics	Assignments
Jan-24	District In-service	No School for Students	
Jan-25	Chapter 6 (6.5-6.9)	Lesson 6.5 Add vocabulary pre-image	
Jan-26		Lesson 6.6	
Jan-27		Lesson 6.7 Day One	
Jan-28		Lesson 6.7 Day Two	
Jan-31		Review 6.8 Day One	
Feb-1		Lesson 6.8 Day Two	
Feb-2		Lesson 6.9	
Feb-3		Review	
Feb-4		Chapter 6 Test	
Feb-7	Chapter 7 (7.1-7.6)	Lesson 7.1	
Feb-8		Lesson 7.2	
Feb-9		Lesson 7.3	
Feb-10		Lesson 7.4	
Feb-11		Activity/Review/Catch-Up Day	
Feb-14		Lesson 7.5	
Feb-15		Lesson 7.6	
Feb-16		Review	
Feb-17		Chapter 7 Test	
Feb-18	Chapter 8 (8.1-8.9)	Lesson 8.3 (Pythagorean Theorem finding C)	
Feb-21	President's Day-Holiday	No School	
Feb-22		Lesson 8.3 (Pythagorean Thm Day Two-Supplement Triples)	
Feb-23		Lesson 8.4 Day One	
Feb-24		Lesson 8.4 Day Two	
Feb-25		Lesson 8.4 Day Three (Geometric Mean)	
Feb-28		Lesson 8.5 Day One	
Mar-1		Lesson 8.5 Day Two	
Mar-2		Lesson 8.6	
Mar-3		Lesson 8.7 (review simplifying radicals)	
Mar-4		Lesson 8.8	
Mar-7		Trig Functions Intro SOH CAH TOA (include Calculator demo)	
Mar-8		Trig Function Handout Supplement	See 10.8 and 10.9 for Reference
Mar-9		Angles of Elevation/Depression	
Mar-10		Review	
Mar-11		Chapter 8 Test	
Mar-14	Chapter 9 (9.1-9.7)	Lesson 9.1	
Mar-15		Lesson 9.2	
Mar-16		Lesson 9.3 Day One	
Mar-17		Lesson 9.3 Day Two	
Mar-18		Activity/Review/Catch-Up Day	
Mar-21		Lesson 9.4 Day One	
Mar-22		Lesson 9.4 Day Two (include reg polygons w/ apothems)	Algebra 1 Pizzaz
Mar-23		Lesson 9.5 add vocabulary mid-segment	
Mar-24		Lesson 9.6 Day One	
Mar-25	End of 3rd Quarter	Activity/Review/Catch-Up Day	
Mar-28	Spring Break-Holiday	No School	
Mar-29	Spring Break-Holiday	No School	
Mar-30	Spring Break-Holiday	No School	
Mar-31	Spring Break-Holiday	No School	
Apr-1	Spring Break-Holiday	No School	
Apr-4		Lesson 9.6 Day Two	
Apr-5		Lesson 9.7 Day One	
Apr-6		Lesson 9.7 Day Two	
Apr-7		Review	
Apr-8		Chapter 9 Test	
Apr-11	Chapter 10 (10.1-10.11)	Lesson 10.1 add vocabulary concentric circles	
Apr-12		Lesson 10.2 add vocabulary irrational and pi	

