Geometry **Freysinger**			**Course Overview**		**CSD CASH**

Tools, Reasoning and proof 24 days		1-1 Patterns and Inductive Reasoning -definitions Pg. 6 #1-23 odd in class	1-2 Drawings, nets and other models -definitions -net and visuals -create models Pg. 13 #1-20 all	1-2 Drawings, nets and other models -definitions -net and visuals -create models Pg. 13 #1-20 all	1-3 points lines, and planes -definitions -naming of planes on cube Pg. 19 #1-43 odd

Tools, Reasoning and proof 24 days	1-3 points lines, and planes -definitions -naming of planes on cube Pg. 19 #1-43 odd	1-4 Segments, Rays, Parallel Lines and Planes -definitions -classroom examples and discussions Pg. 25 #1-33 all	Quiz pg. 28 #1-10 all Grade, review and return in class	1-5 Measuring Segments -congruent definition -segment addition postulate -midpoint Pg. 33 #1-35 odd	1-6 Measuring Angles -definitions -angle addition postulate -angle pairs Pg. 40 #1-45 odd

Tools, Reasoning and proof 24 days	1-7 Bisectors Pg. 47 #9,11 and practice worksheet 1-6 #1-15 all	1-8 coordinate plane -distance formula Midpoint formula Pg. 56 #1-39 odd hand in	Worksheet practice 1-8 #6-20 all -more practice of formulas	Quiz pg. 59 #1-10 all Omit 7 and 8	1-9 Perimeter, circumference and area -formulas -discussion about application Pg. 65 #1-37 odd

Tools, Reasoning and proof 24 days	Chapter review pg. 71-73 various problems in class	Chapter one test	2-1 Conditional Statements -definitions -truth value -converse Symbolic form Pg. 83 #1-31 odd	2-2 Biconditionals and Definitions -symbolic form -class discussion and practice Pg. 90 #1-23 odd	2-3 Deductive Reasoning -Definitions -law of detachment -law of syllogism Real world applications Pg. 96 #1-15 all	

Tools, Reasoning and proof 24 days	Quiz pg. 100 #1-10 all	2-4 Reasoning in algebra -properties of equality -distributive property Properties of congruence Pg. 105 #1-23 odd	2-5 Proving Angles Congruent -vertical angle theorem -cong. supplement theorem -cong. Complements theorem Pg. 112 #1-7 all, 12,13,16-18	Chapter 2 review pg. 117-119	Chapter 2 test	

Parallel and perpendicular lines 18 days	3-1 properties of parallel lines -definitions -board work with diagrams -properties Pg. 131 #1-8 in class hand in	Continue 3-1 -classroom demonstrations Pg. 131 #9-29	3-2 proving lines parallel -discussion of proof process -algebra applications -statement/reason applications Pg. 137-140 #1-21 all	Continue 3-2 as a two day lesson discussion of proof process -algebra applications -statement/reason applications pg. 137-140 #24, 25, 27, 28-31, 38	Classroom practice and activity in groups -complete practice worksheets 3-1 and 3-2 in class	

Parallel and perpendicular lines 18 days		3-3 Parallel and Perpendicular Lines -theorems, definitions -class demonstration and discussion Pg. 143 #1-11 all	3-4 Parallel Lines and triangle angle sum theorem -measure of angles = 180 -triangle classifications Pg. 150 #1-6,10-26 all Hand in	Quiz sections 3-1 through 3-4 in class	3.5 polygon angle sum theorem -definition -naming polygons Pg. 161 #1-21 all
Parallel and perpendicular lines 18 days	3-6 lines in coordinate plane -slope intercept form -standard form -point slope form Pg. 169 #1-32 all	Classroom practice of skills 3-5	3-7 slope of parallel and perpendicular lines -definitions -negative reciprocal Pg. 177 # 1-27 all	Classroom practice of skills 3-6 through 3-7	
Parallel and perpendicular lines 18 days	Review chapter 3 Pg. 189-191 In class with assistance and demonstration	Review Chapter 3 continue pg. 189 – 191 in class	Review Chapter 3 continue pg. 189 – 191 in class	Chapter 3 test in class	3-8 Constructing parallel and perpendicular lines -classroom activity with compass and protractors Pg. 181 - 183

Congruency 17 days	4-1 Congruent figures -definition -naming of congruent parts -proof in class	4-2 Triangle Congruence by sss and sas -definition of postulate -proofs in class Pg. 208 #1-27 odd hand in	Continue 4-2 with proofs in class if needed	4-3 triangle congruence by ASA and AAS Discussion of postulates -proofs in class Pg. 215 #1-25 odd	Check point quiz in book pg. 219. Go through in class after completion

Congruency 17 days	4-4 Using congruent triangles -CPCTC -more practice with proofs and reasons Pg. 222 #1-11 all	Continue 4-4 -various proofs in class and for homework Pg. 222 #12-19 all	4-5Isosceles and equilateral triangles -label triangles -theorems -corollaries Pg. pg. 230 #1-15 all	4-6 congruence in right triangles -HL theorem Do assignment in class Pg. 237 #1-11 all	Check point quiz in book pg. 240. Go through in class after completion

Congruency 17 days	Algebra review Linear equations Pg. 234 #1-10 all	4-7 corr. Parts of cong. Triangles -multiple pairs on congruent triangles Pg. 243 #1-21 odd	Chap. review Pg. 249 – 251 in class Focus on proofs and congruency statements	Chap. review Pg. 249 – 251 in class Focus on proofs and congruency statements	Chap. review Practice worksheet

Congruency 17 days	Chap. review Pg. 249 – 251 in class Focus on proofs and congruency statements	Chapter 4 test			

Relationship within triangles 14 days		5-1 Mid segments of triangles -definitions -association with parallel Pg. 262 #1-36 odd	5-2 bisectors in triangles -perpendicular bisector -angle bisector -Distance from a point Pg. 267 #1-39 odd	5-2 bisectors in triangles -perpendicular bisector -angle bisector -Distance from a point Pg. 267 #1-38 even	5-3 Concurrent lines, medians, and altitudes -Definitions and diagrams -class discussion -board work lecture

Relationship within triangles 14 days	5-3 Concurrent lines, medians, and altitudes -Definitions and diagrams -class discussion -board work Pg. 276 #1-22 all	Checkpoint quiz section 5-1 through 5-3	5-4 Inverses, contra positives and indirect reasoning -definitions -classroom discussion and calculations Pg. 283 #1-25 odd	Solving inequalities Review of algebra 1 Pg. 288 #1-33 odd in class	5-5 inequalities in triangles -comparison prop of inequality -exterior angle theorem Pg. 292 #1-27 all

Relationship within triangles 14 days	5-5 inequalities in triangles -comparison prop of inequality -exterior angle theorem Pg. 292 #1-27 all	Chapter 5 review pg. 297 – 299 and various worksheet problems 5-1 through 5-5	Chapter 5 review pg. 297 – 299 and various worksheet problems 5-1 through 5-5	Chapter 5 test	Paper folding project – Crane

Quadrilaterals 19 days	6-1 Classifying quadrilaterals -special quads. -classifying tools -coordinate methods Pg. 308 #1-33 odd	6-2 properties of parallelograms -opposite sides and angles -diagonals Pg. 315 #1-43 odd	6-3 Proving quadrilateral is parallelogram -classroom proofs -pg. 324 #1-21 odd	6-4 special parallelograms -rhombus -diagonals -rectangle Pg. 332 #1-23 odd and 22	Review of all sections with use of 6-1 through 6-4 worksheets in class

Quadrilaterals 19 days	Quiz sections 6-1 through 6-3 Pg. 327 #1-10 all	6-4 special parallelograms -rhombus -diagonals -rectangle Pg. 332 #1-23 odd and 22	6-5 trapezoids and kites -base angles -diagonals of isos trapezoids Pg. 338 #1-27 odd and 39,40	6-6 placing figures in coordinate plane -midpoint formula -naming coordinates Pg. 344 #1-21 odd	Quiz checkpoint quiz Pg. 347 #1-10 all In class

Quadrilaterals 19 days	6-7 Proofs using coordinate geometry -classroom examples with practice Pg. 349 #1-5 all in class 9-23 odd	6-7 Proofs using coordinate geometry -classroom examples with practice – cont.	6-7 Proofs using coordinate geometry -classroom examples with practice Pg. 349 #1-5 all in class 9-23 odd	Begin chapter review Worksheet 6-3 through 6-7	

Quadrilaterals 19 days	chapter review Pg. 357 #11-34 all	chapter review Pg. 357 #11-34 all Review sheet	Origami crane in class as activity -identify all different quadrilaterals	Create origami crane as evaluation of quadrilateral qualities	Chapter 6 test
Relationship within triangles 30 days		Review sheet for all quadrilaterals	Create origami crane as evaluation of quadrilateral qualities	7.1 Ratios and Proportions -terminology -cross multiply -scale drawings Pg. 368 #3-20 all in class	Create origami crane as evaluation of quadrilateral qualities And <u>Donald in Mathematics Land</u>
Relationship within triangles 30 days	7-2 similar polygons -definitions -creating ratios -golden rectangle and ratio Pg. 375 #1-39 odd	Quiz pg. 379 #1-10 all Then fractals pg. 380 in class	7-3 Proving Triangles Similar -theorems -finding lengths Pg. 385 1-41 odd	Simplifying radicals -rules of radicals -simplification -rationalize denominator Pg. 390 #1-24 in class and homework	7-4 Similarity in right triangles -altitude and hypotenuse -proportions Pg. 394 #1-36

Relationship within triangles 30 days		7-4 Similarity in right triangles -altitude and hypotenuse -proportions Pg. 394 #1-36	7-5 proportions in triangles -side splitter thm. -parallel lines and proportions Pg. 400 #1-24	Quiz pg. 404 1-10 all in class	Chapter 7 review Pg. 407 – 409 in class And practice worksheets chapter 7

Relationship within triangles 30 days	Quiz pg. 404 1-10 all in class	Chapter 7 review Pg. 407 – 409 in class And practice worksheets chapter 7	Chapter 7 review Pg. 407 – 409 in class	Chapter 7 test	8-1 Pythagorean Theorem and its Converse -review and apply theorem -triples and converse Pg. 420 #1-31 odd	

Relationship within triangles 30 days	8-1 Pythagorean Theorem and its Converse -review and apply theorem -triples and converse Pg. 420 #1-31 odd	8-2 Special right triangles -describe and label Pg. 428 #1-21 odd	Quiz pg. 430 #1-10 all The Staff and Stadia scope in class Pg. 431	8-3 The Tangent Ratio -definition -opposite adjacent -calculator input Pg. 434 #1-29 odd	8-4 Sine and Cosine Ratio -definitions of both -create ratios Pg. 441 #1-16 all	
Relationship within triangles 30 days	8-4 Sine and Cosine Ratio -definitions of both -create ratios Pg. 441 #1-16 all	8-5 Angles of Elevation and Depression -definitions -class demonstration Application problems Pg. 447 #1-16 all	Chapter 8 review in class Pg. 461-463	Chapter 8 review practice pages	Chapter 8 test	
Relationship within triangles 30 days	Chapter 8 review in class Pg. 461-463	Chapter 8 review practice pages	Chapter 8 review practice pages	Chapter 8 test	Review test Origami project	

Surface area and volume 18 days	11-1 Space Figures and Cross Sections -definitions -3D figures -Euler's formula -cross sections Pg. 601 #1-19 all	11-2 Surface Areas of Prisms and Cylinders -definitions of parts -class discussion -applications of figures -lateral/surface area of cylinder Pg. 611 #1-16 all	11.3 Surface Areas of Pyramids and Cones -definitions -lateral and surface areas of reg. pyramids And cones Pg.620 #1-13 all	Checkpoint quiz in class Pg. 623 #1-10 all	11-4 Volumes of Prisms and Cylinders -Cavalieri's Principle -formulas -composite space figures Pg. 627 # 1-19 all
Surface area and volume 18 days	Checkpoint quiz in class Pg. 623 #1-10 all	11-4 Volumes of Prisms and Cylinders -Cavalieri's Principle -formulas -composite space figures Pg. 627 # 1-19 all	11-4 Volumes of Prisms and Cylinders -Cavalieri's Principle -formulas -composite space figures Pg. 627 # 1-19 all	11-5 Volumes of Pyramids and Cones -formulas -applications Pg. 634 #1-1-18 all, 21-23	11-5 Volumes of Pyramids and Cones -formulas -applications Pg. 634 #1-1-18 all, 21-23
Surface area and volume 18 days	Classroom review worksheet 11-4	Classroom review worksheet 11-5	Surface Areas and Volumes of Spheres -definitions -surface area formula -volume formula Pg. 640 #1-20 all	Classroom review worksheet 11-6	

Surface area and volume 18 days		Chapter review Pg. 653 – 655 in class	Chapter review Pg. 653 – 655 in class	Chapter 11 test	Review test Classroom activity

Circles and 3D projects 29 days	12-1 Tangent Lines -point of tangency -tangent to circle - inscribed/circumscribed Pg. 665 #1-16 all	12-2 Chords and Arcs -definitions -congruency Pg. 673 #1-19 all	12-3 Inscribed Angles -inscribed angles -intercepted arcs Pg. 681 #1-22 all	Practice worksheets 12-1 through 12-3 as needed	Mid chapter quiz Pg. 685 #1-10 all	
Circles and 3D projects 29 days	12-4 Angle Measure and Segment Lengths -definition of secant -application of theorems Pg. 691 #1-14 all in class	Practice sheet for review of material	12-4 Angle Measure and Segment Lengths -definition of secant -application of theorems Pg. 691 #1-14 all in class	Check point quiz Pg. 700 #1-10 all	Practice worksheet for review of material	
Circles and 3D projects 29 days	GEOMETRIC COMPOSTITIION PROJECT	GEOMETRIC COMPOSTITIION PROJECT	GEOMETRIC COMPOSTITIION PROJECT	GEOMETRIC COMPOSTITIION PROJECT	Practice worksheet for review of material	

Circles and 3D projects 29 days	GEOMETRIC COMPOSTITIION PROJECT	GEOMETRIC COMPOSTITIION PROJECT	12-5 Circles in Coordinate Plane -equation of circle -coordinate points Pg. 697 #1-21 all	Practice worksheet 12-5	Check point quiz Pg. 700 #1-10 all	

Circles and 3D projects 29 days		12-5 Circles in Coordinate Plane -equation of circle -coordinate points Pg. 697 #1-21 all	Check point quiz Pg. 700 #1-10 all	Chapter 12 review Pg. 707 – 710 #6-33 all	Chapter 12 review Pg. 707 – 710 #6-33 all	

| Circles and 3D projects 29 days | Chapter 12 review Pg. 707 – 710 #6-33 all | Chapter 12 test in book as review | Practice worksheets for chapter 12 found on MBC | Practice worksheets for chapter 12 found on MBC

Final for period 5 | Practice worksheets for chapter 12 found on MBC | |
|---|---|---|---|---|---|---|