

**GEOMETRY**  
**SEMESTER 1 ASSESSMENT ITEM SPECIFICATION SHEET & KEY**



Free Response						
#	Objective	Syllabus Objective	NV State Standard			
1	Write algebraic proofs.	2.10	4.12.9			
2	Use constructions to copy and bisect segments and angles.	1.7	4.12.8			
3	Utilize the distance, slope, and midpoint formulas to classify a given quadrilateral.	5.9	4.12.5			
Multiple Choice						
#	Objective	Syllabus Objective	NV State Standard	08/09 Practice Key	08/09 Final Key*	09/10 Final Key
1	Classify pairs of angles.	1.5	4.12.6	C	D	
2	Classify pairs of angles.	1.5	4.12.6	D	A	
3	Solve segment and angle problems using algebraic techniques.	1.6	4.12.6	C	B	
4	Solve segment and angle problems using algebraic techniques.	1.6	4.12.6	B	A	
5	Find the distance between two points.	1.8	3.12.3	A	D	
6	Find the midpoint of a segment.	1.9	3.12.3	C	B	
7	Justify conjectures and solve problems using inductive reasoning.	2.2	4.12.9	B	C	
8	Differentiate between deductive and inductive reasoning.	2.3	4.12.9	B	C	
9	Analyze conditional or bi-conditional statements.	2.6	4.12.9	D	D	
10	Write and analyze the converse, inverse, and contrapositive of a statement.	2.7	4.12.9	D	A	
11	Write and analyze the converse, inverse, and contrapositive of a statement.	2.7	4.12.9	C	D	
12	Find counterexamples to disprove mathematical statements.	2.9	4.12.9	A	D	
13	Analyze relationships when two lines are cut by a transversal.	3.2	4.12.6	A	C	
14	Solve problems which involve parallel or perpendicular lines using algebraic techniques.	3.3	4.12.6	C	C	
15	Solve problems which involve parallel or perpendicular lines using algebraic techniques.	3.3	4.12.6	C	B	
16	Solve problems which involve parallel or perpendicular lines using algebraic techniques.	3.3	4.12.6	D	D	
17	Write proofs relating to parallel and perpendicular lines.	3.4	4.12.9	A	A	
18	Classify triangles by sides and/or angles.	4.1	4.12.1	C	D	
19	Solve problems involving properties of polygons.	5.6	4.12.6	B	C	
20	Analyze the relationships between congruent figures.	4.3	4.12.6	D	B	
21	Prove that two triangles are congruent.	4.6	4.12.9	A	B	
22	Prove that two triangles are congruent.	4.6	4.12.6	D	C	
23	Solve problems related to congruent triangles using algebraic techniques.	4.5	4.12.1	B	B	
24	Solve problems related to congruent triangles using algebraic techniques.	4.5	4.12.6	B	D	
25	Prove that two triangles are congruent.	4.6	4.12.9	A	B	

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<b>Multiple Choice</b>						
#	Objective	Syllabus Objective	NV State Standard	08/09 Practice Key	08/09 Final Key*	09/10 Final Key
26	Justify congruence using corresponding parts of congruent triangles.	4.4	4.12.9	C	D	
27	Solve problems related to congruent triangles using algebraic techniques.	4.5	4.12.1	A	B	
28	Prove and use the properties of isosceles and/or equilateral triangles.	4.7	4.12.1	A	A	
29	Solve problems applying the properties of triangle inequalities.	4.11	4.12.7	D	B	
30	Find the distance between two points.	1.8	3.12.3	C	C	
31	Solve problems applying the properties of triangle inequalities.	4.11	4.12.7	D	D	
32	Solve problems applying the properties of triangle inequalities.	4.11	4.12.7	B	C	
33	Apply special segment properties to solve problems.	4.13	4.12.1	A	A	
34	Apply special segment properties to solve problems.	4.13	4.12.7	D	C	
35	Explore the points of concurrency and their special relationships.	4.14	4.12.1	D	C	
36	Differentiate among polygons by their attributes.	5.1	4.12.1	B	B	
37	Differentiate among polygons by their attributes.	5.1	4.12.1	D	D	
38	Find the sum of the measures of the interior angles of a polygon.	5.3	4.12.6	C	C	
39	Solve problems involving properties of polygons.	5.6	4.12.6	A	A	
40	Solve problems involving properties of special quadrilaterals.	5.4	4.12.1	B	A	
41	Find the measures of interior, exterior, and central angles of a given regular polygon.	5.8	4.12.6	A	C	
42	Solve problems involving properties of special quadrilaterals.	5.4	4.12.1	C	D	
43	Solve problems involving properties of special quadrilaterals.	5.4	4.12.1	C	B	
44	Justify congruence using corresponding parts of congruent triangles.	4.4	4.12.9	D	A	
45	Solve problems involving properties of polygons.	5.6	4.12.6	B	B	
46	Find the measures of interior, exterior, and central angles of a given regular polygon.	5.8	4.12.6	C	C	
47	Solve problems involving properties of polygons.	5.6	4.12.1	C	B	
48	Prove and use the properties of isosceles and/or equilateral triangles.	4.7	4.12.9	A	C	
49	Justify conjectures and solve problems using inductive reasoning.	2.2	4.12.9	C	A	
50	Justify conjectures and solve problems using inductive reasoning.	2.2	4.12.9	B	D	