

TITLE OF LESSON

Geometry Unit 1 Lesson 45 – Final Exam

Prove it! What's on the outside? What's on the inside? Of Geometry

TIME ESTIMATE FOR THIS LESSON

One class period

ALIGNMENT WITH STANDARDS

California – Geometry

- 1.0 Students demonstrate understanding by identifying and giving examples of undefined terms, axioms, theorems, and inductive and deductive reasoning.
 - 2.0 Students write geometric proofs, including proofs by contradiction.
 - 3.0 Students construct and judge the validity of a logical argument and give counterexamples to disprove a statement.
 - 4.0 Students prove basic theorems involving congruence and similarity.
 - 5.0 Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles.
 - 7.0 Students prove and use theorems involving the properties of parallel lines cut by a transversal, the properties of quadrilaterals, and the properties of circles.
 - 8.0 Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures.
 - 10.0 Students compute areas of polygons, including rectangles, scalene triangles, equilateral triangles, rhombi, parallelograms, and trapezoids.
 - 11.0 Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids.
 - 12.0 Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.
 - 13.0 Students prove relationships between angles in polygons by using properties of complementary, supplementary, vertical, and exterior angles.
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MATERIALS

Final Exam Part II – Teacher Pages (one for each student)

Final Exam Part II Key – Teacher Page

LESSON OBJECTIVES

- To demonstrate individual responsibility
 - To demonstrate understanding of the skills and math concepts addressed this quarter
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FOCUS AND MOTIVATE STUDENTS

- 1) **Binders** – Collect student binders to grade tonight. You will be grading on organization and thoroughness. Do they have all of their assignments and notes? Are they ordered by section and by date? Collect all review sheets or ask students to place them in their binders.
 - 2) **Agenda** – There will be no agenda today, as it is a test day.
 - 3) **Instructions** – Explain to students that you'll give each student a set of problems. They should work on them alone without their notes and binders. They will have the entire period to complete these problems and you'll be letting them know how much time they have left periodically.
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ACTIVITIES – INDIVIDUAL AND GROUP

1. Final Exam – Hand out the **Final Exam Part II**. Review the instructions with students. Tell them they should show all their work. They may use the back of their exams if they need room. Have students begin.
 2. Time – Let students know when they have half the period left; then 15, 10, and 5 minutes. (If you have students whose IEPs require it, have them sit together on one side of the class so you can read them the questions.)
 3. Collect all tests as you normally would—as students finish or as they are leaving the class.
 4. End of Unit 1! Go home and relax!
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HOMEWORK
Relax

GROUP ROLES
None

DOCUMENTATION FOR PORTFOLIO
Final Photoshop Design
Final Exam Part I: Practical Exam – Geometric Shapes Project
Final Exam Part II