

Geometry Lesson Plan

Secondary Education

<i>Objectives</i>	Following this lesson students will be able to: <ul style="list-style-type: none">• Complete basic geometric proofs.• Work in groups to combine geometric knowledge and complete a large proof.
<i>Overview</i>	Students will work in groups to write basic geometric proofs assigned to them. Then, as a class, students will work with a partnering class to combine the parts of the proof into a large proof.
<i>Materials</i>	<ul style="list-style-type: none">• Paper and pencil• Computer (one per classroom)
<i>Procedures</i>	<ol style="list-style-type: none">1. Before beginning this activity students should have the following background knowledge:<ul style="list-style-type: none">• Basic understanding of geometric proofs and the concepts of writing them.• Basic knowledge of geometric theorems, definitions and postulates.2. Students will be put into small groups (between 3 and 5 students) and work together to complete their assigned portion of the proof. They will have access to notes, homework, books, etc.3. When all small groups have completed their portions, the classes will come together (via Google Talk Video) and work to put together the smaller pieces of the proofs to complete a larger proof.
<i>Grading</i>	Students will be given a grade for their group work and completion of their portion of the proof. Additionally, students will be given a grade for their participation in the class discussion and their contribution to completing the larger proof.