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In June 2010, a team of three graduate students and a professor from Auburn University traveled to the Northern Territory of Australia to partner with a professor from Charles Darwin University and local teachers to provide weekend math camps for around 70 students aged 12 to 15. The graduate students were charged with developing inquiry based problems from well-known theorems involving advanced mathematical principles, which were tailored to enable the students to investigate finite and abstract examples that would hopefully lead them to conjecture the general results. Each group of students was guided using both open ended questioning and access to appropriate manipulatives. The students' progress and development of problem solving was exemplified through their careful construction of statements as they discussed their findings. At the conclusion of the camp, the team from Auburn University presented abstract solutions for the claims made by the students. A report on these activities will be presented. (Received September 20, 2010)