

Name: Paula Wood
Grade Level: 9-12
Topic: Incredible Geometric Eggs
Class Time Needed: 10 – 15 minutes
All other work is done outside of class by the students.

A. Objective

Students will create a geometric egg that must stand alone. (PASS Process Standards 1.1, 2.1, 2.2, 4)

B. Materials

- Paper Mache eggs – provided by the teacher
- Materials to create with – provided by the students

C. Resources

- Holt Geometry, ISBN 0-03-036643-7
- <http://www.geocities.com/williamwchow/egg/e-egg.htm>
- Archimedes Revenge, by Paul Hoffman, ISBN: 0449000893

D. Introduction

Students have been working in geometry for almost a semester and have a background in several geometric areas. We discuss the section on “Egg Over Alberta” by Paul Hoffman on page 168 – 169 of the textbook.



The students are then given a paper Mache egg. They are to create something with their egg. The only rules are

1. it must be geometric
2. it must stand

The students are given about 3 to 4 weeks to complete the project out of class. On the day the eggs are due, the students present their eggs to the class and then write a brief paper about the egg. They must describe the creation of the egg (why and how) and also describe the egg geometrically.

E. Assessment

- a. Was the project complete?
- b. Does the egg stand?
- c. Is the paper complete?

F. Modifications

Allowances are made for creativity and uniqueness (at this point I know my students fairly well and know what they are capable of)

G. Reflection

This a fun project for the students which allows them to make connections and be creative. It takes very little class time and they really enjoy the project.

Student Work Examples

