**Intermediate Programming**

**Lesson Plan #3**

**Arts Infusion**

**Introduction to Lesson Plan #3**

**Greenfoot Program for Arts Infusion – Alma Mater**

**BCS-IP-8. Students will demonstrate knowledge of advanced object-oriented concepts.**

Teacher: Mrs. Wylene Dickey Room #2503

Course Title: Intermediate Programming Central High School

Program Concentration: Business & Computer Science

Career Pathway: Computing

Assignment #1 - Introductory assignment

The student will be introduced to objects, classes and methods in Greenfoot. The student will then be introduced to the PianoWorld and actor classes. Since Central is a Fine Arts Magnet School, the students should find this lesson interesting because some of them might be able to relate the significance of the infusion of fine arts with core academic courses. Just recently the teachers have been introduced to arts infusion and how the arts can help to make the students more successful in their core academic courses.

This assignment will be used to open the editor for each of the actors (the black keys, white keys, and the piano.

The student will be given the notes and words to the school’s alma mater. They will then be asked to use Greenfoot to practice the tune of Central High Schools alma mater.

The teacher will use NetSupport to connect to each student’s computer, and project their progress individually via the use of the projector after connecting to their computers.

Assignment #2 -Main assignment

The student will then be asked to choose an instrument of his or her choice and create the world classes and actor classes as illustrated by the piano. The student must create methods for each actor as was done in the PianoWorld. For example, if the student chooses a DrumWorld, each type of drum will be an actor and each cymbal will be an actor. All will have tunes and methods. It can be a DrumWorld with bass, snare, cymbals, etc. It is my opinion that this might be a little easier than the piano since there will be less objects needing methods. Of course that will also determine the number of parts there are to the drumset. The students will continue to test each method until perfection has been reached.