**Teacher:** Sherrie Adams  
**Date:** 6/24/15  
**Subject / grade level:** 7th grade Computer Apps  
**Materials:** programming challenge Alice World, handout of challenges

### Essential Standards and Clarifying Objectives
L2-5 Implement problem solving solutions using programming language, including: looping behavior, conditional statements, logic, expressions, variables, and/or functions.

### Lesson objective(s):
- Students will construct solutions to programming challenges that explore interactivity in the Alice environment.
- Students will discuss various solutions to their challenges.

### Differentiation strategies to meet diverse learner needs:
- Use a variety of teaching styles to accommodate learning styles.

#### ENGAGEMENT
- Demonstrate how to talk through a programming challenge using Programming Challenge Alice World

#### EXPLORATION
- Working in pairs, the students will program a solution to the 4 challenges presented.
- Students will share their solutions to the challenges.
- Class discussion of the merits of each solution

#### EXPLANATION
- Students should have some familiarity with the Alice environment.

#### ELABORATION

#### EVALUATION
- Students will be evaluated by teacher observation