Lesson Plan Practicing Slope of Two Points  
Coding Club (after school activity club)

Teacher: Choe

Date: September 2014

Subject / grade level: 7-8th grade

Materials: PC with Alice 2.4

Department of Defense Education Activity Standards

**Arts, AV/Technology, and Communication**

Students explore career fields that include creating, exhibiting, performing, and publishing multimedia content.

PT-MS2a2 use information technology to design, produce, exhibit, and publish multimedia content; and

Lesson objective(s): Students will learn how slope is computed in Alice 2.4

Differentiation strategies to meet diverse learner needs: Students are encourage to write different codes to achieve same outcome.

**ENGAGEMENT**

Show video on CODING.  
[http://code.org/educate/hoc](http://code.org/educate/hoc)

**EXPLORATION**

- Show Alice resources on the web.  

**EXPLANATION**

Students will either review or learn the formula of slope of two points.

**ELABORATION**

Students will explore way to execute the slope of different sets of points.
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**EVALUATION**

Students will execute other people’s code and write down the strength/weakness of their peers’ coding.

Name: ______________________________                    Name: ______________________________
Date: __________________________________________

**Survey Week 1**

1. Will Alice world help out your friends to learn the slope of two points? Why or Why Not?

2. What was the most useful thing did you realize today?

3. What do you want to do more with the world you created today?