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Lesson Plan Title: Using Scratch to Learn Pattern Recognition

Grade Level: 4th

Lesson Objective(s)

Students will be able to identify at least one pattern in a given scratch project in order to demonstrate their understanding of pattern recognition.

Vocabulary/ Academic Language (Language Function)

Pattern - Something that happens multiple times

Recognition - Realizing that something exists

Identify - Indicating what or who something is

Assessment/Evaluation

Formative (Informal): Students will demonstrate their understanding of the lesson objectives by identifying a pattern in the scratch program. Students will either get an incomplete or complete based on the effort they put into the activity.

Instruction

Set/Motivator: Show the students the scratch project (game) that they will be analyzing to get them interested.

Instructional Procedures/Learning Tasks:

- 1. Students will watch the scratch project run through once.
- 2. Students will open the scratch project on their own desktop computers.
- 3. Students will receive a worksheet with the following questions:
 - a. What is the point of this game?
 - b. Who/What are the two characters in the game?
 - c. What is one of the patterns you can see in this game?
 - d. Are there any other patterns you notice?
 - e. Do you think the patterns are important to the game? Why?

Questions and/or activities for higher order thinking:

1. How are patterns important?

Closure: After the students hand in their assignments to be graded (complete/incomplete) the teacher will (1) ask the students what patterns they found and then (2) give the students the examples that were not found.

Material/Resources:

- 1. Scratch Program
- 2. Scratch Project
- 3. Desktop Computers (Classroom Set)
- 4. Activity Worksheet

Adaptations to Meet Individual Needs:

- 1. Students who are identified as ELL will be given the materials in their native language to help them complete the activity to the best of their abilities.
- 2. Students with IEPs will get modified instruction or materials to help them complete the activity to the best of their abilities.
 - a. IE/ Students with a hearing issue may be given a scratch project that has a movement in place of the sound block so it is easily identifiable.

Management/Safety Issues:

1. Students should be constantly monitored in order to keep them on task as well as make sure they are using their computers in a safe and responsible way.