Daily Lesson Plan for: Sascha Simkanich

Course: 6th Grade Computer Science

Date: TBA

Length of Class: 46 Minute

Topic of Lesson: Introduction to Flowchart (Day 1 & 2 of 8)

Essential Questions:
Essential Question 1: What is a flowchart?
Essential Question 2: How are the symbols used in a flowchart?

Objective: Global learners will be able to:

- Define the basic symbols of a flow chart
- Identify how to apply flow chart symbols to a simple set of directions
- Understand algorithms (written in pseudocode or flow diagram), explain what they do, and correct or complete them

Standards: NTERIM 2016 CSTA K–12 CS Standards 2-A-7-4

Interpret the flow of execution of algorithms and predict their outcomes. [Clarification: Algorithms can be expressed using natural language, flow and control diagrams, comments within code, and pseudocode]

Procedure:
Warm-up/Preparation for Learning: (5 minutes)
1. On a piece of paper, make a list of different types of charts that you make in school.

Instruction / Learning Activity: (36 minutes)
1. Watch video from Big Bang Theory showing a friend flowchart
2. Define algorithm and how it relates to flowcharts and show examples
3. Instruct on how flowcharts are used in computer programming and show examples
4. Students take notes on the different flowchart symbols and define their meaning
5. Learn about the language of flowcharts – terminal, selection, process, input/output
6. Flowcharting tips
7. Students write a flowchart on paper and by hand on the process of getting up and going to school. They must use at least 4 processes with at most a total of 5 process and two decisions
8. In partners, students share their flowcharts an discuss similarities and differences

Closure/Reflection on Learning: (5 minutes)
1. With an elbow partner, explain one struggle you had when writing a flowchart

Methods Assessment
Hand-written flowcharts