

Flow Chart Activity



Objective

- Understand algorithms and explain what they do, and how to create them
- Produce algorithms in flowchart form to solve problems or describe processes

Reference

See this lesson plan for reference: <https://teachwithict.weebly.com/flowcharts.html>

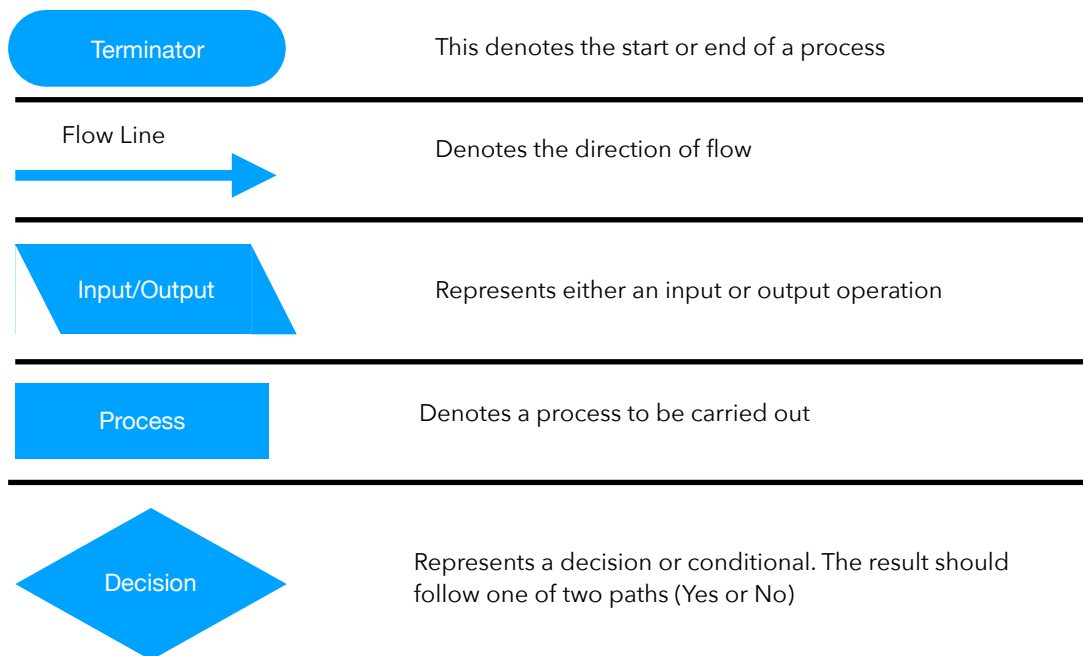
Activity

Remember that an algorithm is (from <https://blueprint.cs4all.nyc/concepts/>):

Instructions that convert a set of inputs into a desired outcome (kind of like a recipe)

Algorithms are a generalized and repeatable sequence of instructions that achieve a particular purpose and output, given a set of inputs. It's important to understand when, why and how to implement an algorithm, and to consider who or what might be affected.

Standard Flow Chart Symbols



#1 Using these standard flowchart symbols, construct a flowchart to instruct a martian to make a peanut butter and jelly sandwich. Assume the martian can read and understand English, but otherwise lacks a lot of context and experience.

#2 Construct a flowchart for a process in your classroom. For example, how to know when to use a comma, how to validate an Internet source, or how congress passes a bill.

Consider how closer examinations of processes can help students understand a larger context, and how it is necessary if one seeks create improvements for that process or for a larger context.