

Iteration Means Loops

An **iteration** is a step where some action is **repeated**.

In everyday life, an iteration is simply a repeated action. In **computer science**, an iteration is one run through a block of code that is repeated multiple times.

Definition:

Iteration:

A repetitive action or command typically created with programming loops.

Used in a Sentence:

- Iterations means loops in computer science.
- We will continue trying to *iterate* on our original model, making new improvements each time.
- **Synonyms repeat**

Iteration

Picture/Image/Drawing: [Design Process](#)



credit: Stanford d.school

Examples:

Video

<https://studio.code.org/s/course1/stage/12/puzzle/1>

A cook may experiment with a recipe, tweaking the ingredients or changing different steps of the process slightly until the food tastes as good as it possibly can.

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Video Flocabulary

[Coding for Loops](#)

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New Words!

Algorithm

Say it with me: Al-go-ri-thm

A list of steps that you can follow to finish a task

Program

Say it with me: PRO-gram

*An algorithm that has been coded
into something that can be run by a machine*

Definition:

Algorithm - a step-by-step process for solving a problem or accomplishing some goal, especially by a computer.

Used in a Sentence:

- The programmer used an *algorithm* to calculate average temperatures all over the world.
- There are many types of algorithms.

Algorithm

Examples:

- [BBC Learning - What Is An Algorithm](#)
- [What is an algorithm and why should you care?](#)
- [Code.org Unplugged Lesson and Activity.](#)