

# MP2-Computer Science and Inquiry

Content Area: **Technology**  
Course(s): **Technology 2**  
Time Period: **Marking Period 2**  
Length: **December/January**  
Status: **Published**

## Essential Questions

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How can we code our robot to navigate a maze?

## Big Ideas

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Students will define an algorithm as a sequence of defined steps or instructions to be followed and identify how algorithms relate to computer programming and allow for automation.

## Enduring Understandings

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8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.

8.1.2.AP.2: Model the way programs store and manipulate data by using numbers or other symbols to represent information.

8.1.2.AP.6: Debug errors in an algorithm or program that includes sequences and simple loops.

8.2.2.ED.2: Collaborate to solve a simple problem, or to illustrate how to build a product using the design process.

8.2.2.ED.4: Identify constraints and their role in the engineering design process.

8.2.2.ITH.5: Design a solution to a problem affecting the community in a collaborative team and explain the intended impact of the solution.

8.2.2.ETW.1: Classify products as resulting from nature or produced as a result of technology. • 8.2.2.ETW.2: Identify the natural resources needed to create a product.

## Activities and Assessments

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- Computational thinking: Algorithms and Directions

- Computations thinking: Loops and Conditionals
- It's Natural project

Resources:

Learning.com

Google Slides

Code Monkey