

CODING A LEGO MAZE STEM ACTIVITY

MATERIALS

- Paper for printing Coding a LEGO Maze free printable:

https://researchparent.com/wp-content/uploads/Coding_a_LEGO_Maze_ResearchParent.pdf

- LEGO figures (or other figures of similar size)
- Scissors

LEARNING OUTCOMES

- Students will be introduced to coding using paper rather than a computer.
- Students will be motivated to discuss a more advanced programming concepts.

PROCEDURE

1. The first time only, you will need to print, laminate (optional), and cut out all the pieces in the Coding a LEGO Maze free printable



2. Next you will need to set up your maze.



3. Complete levels by having the student code the directions to navigate their maze.

Pictures from: <https://researchparent.com/coding-a-lego-maze/>

WHAT THIS MEANS

Technology is taking over the world. Being able to program a computer is a skill that will serve students well in the future. Don't let students wait until they are in college to learn the principles of coding!

This could motivate a discussion of more advanced programming concepts such as memory and stored variables for older students.

GLOSSARY

- Coding: the method of giving instructions to a computer to perform a specific task.
- Programming: the action or process of writing computer codes.

RELATED VIDEOS

English

- <https://youtu.be/c6Znf-M2y1s>

Spanish

- <https://youtu.be/qHAilBtZ3nE>

Source: <https://researchparent.com/coding-a-lego-maze/>

For additional information please visit www.theNCSHP.org

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