

Name:

Date:

Class:

Maze Craze Workbook

Introduction – Questions

What questions do you need to answer before the activity? (Write down at least 2 questions.)

1.

2.

3.

4.

Pre-Assessment

What is a healthy choice?

What is an unhealthy choice?

What are the long-term consequences of making healthy and unhealthy choices?

Have you ever coded before?

What do you think it takes to code a robot?

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Healthy Choices

Unhealthy Choices

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❖ Checklist/Expectations

Prototype Maze

- Needs to have a START and an END.
- For every healthy choice, there needs to be an unhealthy choice.
- Minimum 3 healthy choices and 3 unhealthy choices.
- Maximum 5 healthy choices and 5 unhealthy choices.
- The choices do not need to be drawn on the prototype but would be required on the final. This is a good time to decide what they would look like; tracing from a computer will not be an option.
- Must be approved by the teacher before moving to the final copy.

Final Maze

- Only one paper will be provided – all mistakes must be incorporated into the design – problem solve.
- Recreate the **APPROVED** maze.
- Illustrations with labels must be drawn.

Code

- The robot needs to begin at the **start** mark to go through the healthy choices of the maze and finish at the **end** mark.

IF there is time, the robot may:

- Make noises when going through options.
- Change colors when going through options.
- Change speeds.
- Do small “dances.”

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Troubleshooting Notes

Hints: How far did the robot travel based on the code you wrote?

Do you want the robot to go farther or shorter?

Do you need to change the duration (time) or speed?

What does turning left mean in this code?

What does turning right mean in this code?

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Post Assessment

Answer the following questions using complete sentences.

1. What was your robot's goal in the maze?
2. What coding blocks did you use to reach the end?
3. Did anything go wrong? If so, how did you fix it?
4. If you had to add one obstacle, how would you change your code?

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