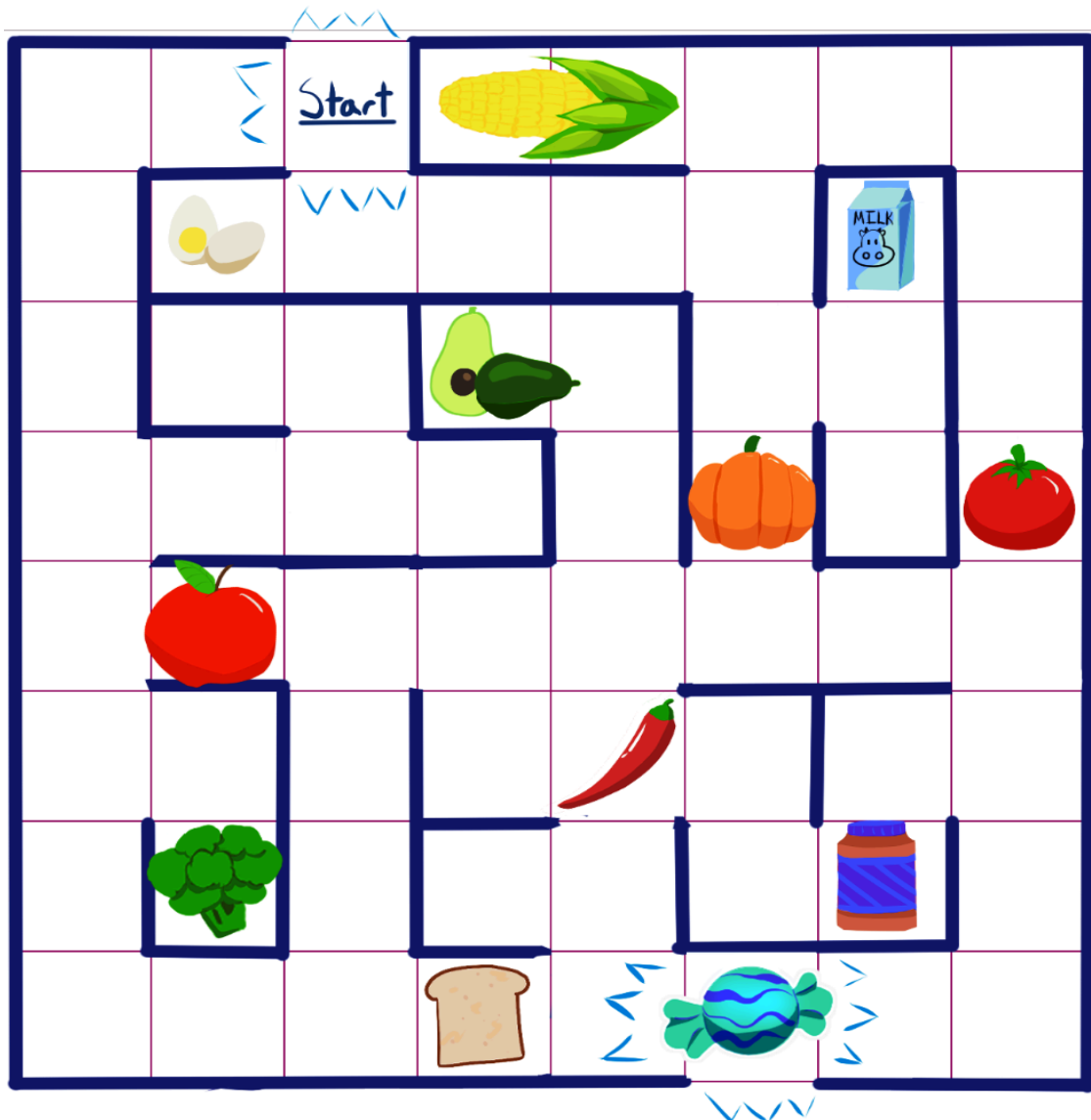


## Candy Hunt - CS For All Activity (Medium)

Target grade levels: 1-3

Focus Standard: 2-3.CT.6 Create two or more algorithms for the same task.

Hand out the attached worksheet to your students and assist in any way you can. For lower grade levels, read the instructions out loud. You may remove or add questions accordingly. Give a demonstration of the program as needed. It is suggested to read through the questions before starting the activity. This will help the students understand the goal of the experience.



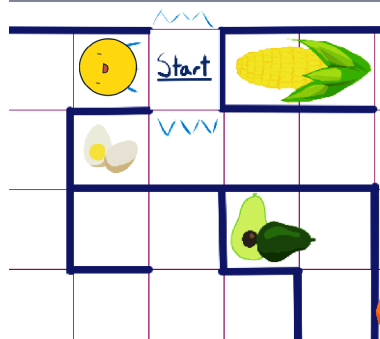


# CANDY HUNT WORKSHEET

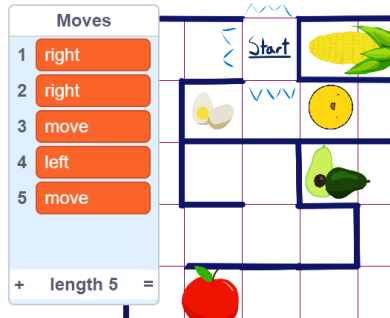
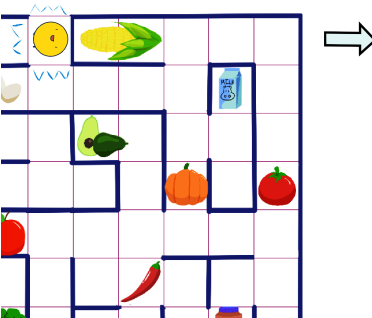

OPEN <https://scratch.mit.edu/projects/761047774/> FOR THE ACTIVITY

Meet Timmie! Timmie is a kid... and Timmie HATES all foods EXCEPT for candy. Timmie HATES running into food, especially when he's hunting for candy. He's stuck in the store and wants to make it to the candy section, but he doesn't know how to get there. Can you help him?

## HOW TO MOVE:

 <p>Click on Timmie</p>	 <p>Type in "Left" to turn left Type in "Right" to turn right Type in "Move" to move</p>	 <p>Timmie will do what you tell Timmie to!</p>
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## THINGS TO REMEMBER:

 <p>Click space to show/hide a list of what you've made Timmie do</p>	 <p>The arrow tells you what direction Timmie is facing!</p>	 <p>Don't let Timmie hit the wall! Timmie doesn't like hitting the wall.</p>
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**Keep track of how many times Timmie runs into food!**

Optional: Keep track of your moves here if needed:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

Optional: Keep track of your moves here if needed:

1.

2.

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## QUESTIONS

How many times did Timmie run into food in the shortest route you found? How long was this route (view path length by pressing the space button)?

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How many tries did it take to find this route?

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Were there any routes where Timmie didn't run into any food? How long was it?

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If you were Timmie, what sort of route would you take if you had a lot of time? What about if you had little time? Explain.

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Challenge Problem: Find a path where Timme only turns 5 times (Hint: Think outside of the box). What did you have to do?

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In this activity, you learn that there are often multiple solutions to a problem. Some ways may suit your needs more than others; some ways may be more difficult, but worth the effort; and some ways may require some creativity. How can you apply this to your life?

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