

NYHS Technology Initiative Questionnaire Summer 2003

Dear Student:

Congratulations on successfully completing New York Hall of Science's first robotics workshop. Please take a few moments to answer the questionnaire and return it to your teacher. Your answers will be kept confidential and will be used only for research purposes.

Enjoy the rest of the summer!

The Robotics Initiative Team

4. Computer Use

Does your family own a computer? Yes No

Please indicate approximately how many hours you spend each week using the computer for the following reasons:

	Number of hours per week ⇐ ○ ○ ○ ○ ○ ○ ○ ○ ⇐				
	0-1	1-2	3-4	4-5	5+
1. Looking for Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Entertainment (Games, movies etc...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Homework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Communications (Email, IM etc...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Feedback

If given the opportunity would you want to learn more about robotics? Yes No

Please rate your change in interest in the following subjects after taking the robotics class?

	Decreased	Same	Increased
1. Mathematics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Science	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Robotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If your interest has increased or decreased in any of the above subjects please indicate why?

Please rate your perceived change in ability in the following subjects after the robotics class?

	Decreased	Same	Increased
1. Mathematics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Science	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Robotics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Programming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Challenge 2:

Start State

1	3	4
8	6	2
7		5

Goal State

1	2	3
8		4
7	6	5

Arrange the tiles so that all the tiles in the start state are in their correct positions in the goal state. You do this by moving tiles. You can move a tile up, down, left, or right, so long as the following conditions are met:

- A. There's no other tile blocking you in the direction of the movement; and
- B. You're not trying to move outside of the boundaries/edges.

Use the grids below to show your progression from the start state to the goal state. Make sure to write down every step. If you make a wrong move do not erase; just move on to the next grid. Please circle the grids that lead to the final solution. (Note: you do not need all these grids to solve the problem. They are just to give you space to work out the problem.)

Draw your robot here: (Please label all of the parts)