

## This is ***your*** learning journal. Make sure that you save it somewhere and keep it updated as you progress through the Project. Your teacher will let you know when to complete each step. Document both your successes and your failings as they provide the most important learning opportunities!

# Step 1: Imagine

To get started, please type your name in the following box:

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# Step 2: Define

As a group, select ONE of the Define modules at <https://app.createbase.co.nz/magnebot/define> to complete. Discuss all your answers as a team, but make sure that every member writes a summary in their own learning journal in the box below. Bullet points and incomplete sentences are acceptable.

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# Step 3: Research

Walk yourself through all four of the Research modules at [https://app.createbase.co.nz/magnebot/research](https://app.createbase.co.nz/send-it/research). If you get stuck or confused, ask your classmates or a teacher.

# Step 4: Plan

Your robot will be faced with many tough decisions as a self-driving vehicle. Type your answer to these brief questions in the boxes below to explain what you think your robot should do in these situations:

1. Did the rubbish bags have to be in the centre of the magnetic sphere to pick them up?

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1. What would cause the arm to break?

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1. If we encounter a situation where we can’t move the magnetic sphere from point a to point b in one movement (for example, because there is an obstacle in the way), what should we do?

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1. In the Create step, you will have access to two action blocks: “Move Arm” and “Magnetic Switch”. List the series of actions that we will need to perform to get one of the rubbish bags into a bin, assuming that the arm starts in the default position (don’t need to provide any coordinates).

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# Step 5: Create

Add comments and a screenshot of your final Create solution below:

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# Step 6: Improve

Add comments and a screenshot of your final Improve solution below:

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# Step 7: Review

Congratulations on completing the Project! Please type your answers to the following questions:

1. If you had more time available, how could you potentially improve your solution? If your solution to the Create step didn’t work, try and explain why.

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1. What was your favourite step of the Creation Process and why? (Imagine, Define, Research, Plan, Create, Improve)

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1. Think about what you achieved during the project. What are you most proud of?

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1. Think about the parts of the project that didn’t go well. List up to **three** of them below. If nothing went bad, think about things that you could have done better.

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1. Choose **one** from question 4. Why do you think it didn’t go well? If you were going to redo this Project, what would you do differently to avoid this negative?

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