

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Mission Reflection

Space agency: \_\_\_\_\_ Robot name: \_\_\_\_\_

Your role/responsibilities: \_\_\_\_\_

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**D:** How many aliens did you find? \_\_\_\_\_

**E:** Reflect on the strengths and weaknesses of your performance in the activity. How would you improve your performance next time?

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**F:** Which space agency found the most aliens? What about their strategy made this possible?

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**G:** Did you have any issues communicating with the robot? You used a remote control to give the robot commands. How do researchers communicate with robots that are vast distances away from the Earth?

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Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

**H:** Provide examples of how you used the engineering design process during this simulation.

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**I:** How would this simulation be different if you could see where the robot was located?

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**J:** How is this simulation realistic? Unrealistic?

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**K:** If you used Livestream to record the robot, you had to deal with a 20 second time delay when using the live feed. Is this a real challenge we have with space exploration? How would delays affect researchers looking to make discoveries in outer space? Explain.

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Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

**L:** The Icefin was tested in Antarctica. Do you think that environment is a good model for Europa? Compare and contrast the two places as you support your answer.

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**M:** If your robot was going to Europa, what are some design constraints you would have to consider based on the conditions there?

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**N:** What types of engineers might be involved in a robot mission to Europa? If you were an engineer on the Europa team, what would your job involve? What skills do you already have to do that job? What skills do you need to learn?

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