

Build a Rover with the University of Guelph

University of Guelph – Department of Physics



Hello everyone! Our names are Eddie Mackinnon, Stefan Mijatovic, Miky Amare, Callum Wareham, and Joshua Cadogan and we talked to you about space exploration and rovers!

We hope that you enjoyed learning about all the cool rovers and missions which we're working on as scientists. But now, it's your turn! We've prepared a couple of activities for you to complete to begin your scientific journey.

In this, one of your very first **lab notebooks**, you will find some "Pre-lab questions" asking you about some of the topics we discussed in our presentation, as well as some space trivia – let's see how good your memory is!

After you use your best thinking to solve those, we're giving you an important mission: design a rover to carry a delicate package safely to Mars!

Using recycled and renewable materials, it is your task to create a rover which will safely carry an egg in an egg drop! Not only do you need to do your best to not crack the egg, but you must also make your rover **LOOK** like a real-life rover. Some examples you can follow are found on page 2.

Best of luck, your research team!



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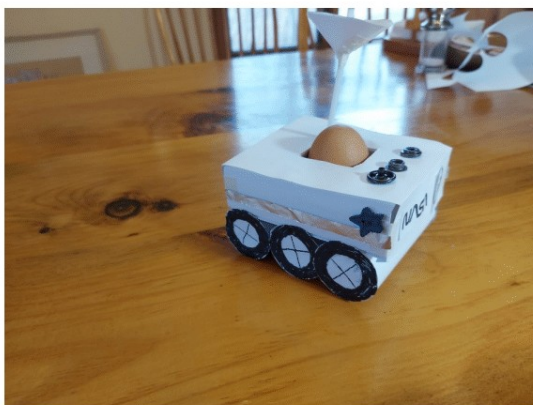


Try your best to answer the following pre-lab questions:

1. What was the name of the first Mars rover?
2. What is the name of the Mars rover currently on Mars?
3. What is the order of the planets in our solar system from the closest to the sun to the farthest from the sun?

Bonus: Use Google and try to research 3 different kinds of stars.

DIY Rover Examples:



If you need a refresher on our challenge for you, we've attached your mission below!

Challenge Video Link: <https://youtu.be/4J6oEuOrgRk>



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