

## Lesson 2: Introduction to Mars

Engagement Question:

### Mars

What I KNOW about Mars	What I WONDER about Mars	What I LEARNED about Mars

### Exploration Activity:

Examine your unknown foreign object. What observations can you make about its surface?

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Based on what you have read about the surface of Mars, how does the surface of your unknown foreign object compare? \_\_\_\_\_

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Draw a picture of the surface of your unknown foreign object.

### Exploration Activity:

Next, cut your sample in half. Describe what you see. \_\_\_\_\_

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Using your straw, take a core sample of your unknown foreign object. What observations can you make? \_\_\_\_\_

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Using the reading selection of Mars as a guide, how does the core sample of your unknown foreign object compare? \_\_\_\_\_

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Draw a picture of the core sample of your unknown foreign object.

As you have observed both the outside and inside of your foreign object, how have you altered your sample? What effect might this have on your conclusions? \_\_\_\_\_

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### Exploration Activity Cont.:

Make a prediction of what would happen if your sample came into contact with water. \_\_\_\_\_

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Now, take an interior slice of your sample that measures no more than 3mm (about 1/8") thick and submerge it in water. Record your observations:

Minutes Elapsed	Observation
1 minute	
2 minutes	
5 minutes	

Through your research and based on the data you have collected, could this unknown foreign object have come from Mars? Explain your conclusion. \_\_\_\_\_

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### Evaluation:

How do you think the activities you completed on making observations and on researching Mars will help you design a successful mission for your Mars Rover? \_\_\_\_\_

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