

APPLY

ANALYZE THE TEXT

Possible answers:

- DOK 2:** The government has shifted the focus because of the people who are interested in space travel. Space travel involves risks, as evidenced by the Challenger and Columbia explosions. Private industry sets bigger goals, like colonization of Mars and tourist trips to the moon.
- DOK 3:** The moon contains helium-3, which could be used in nuclear fusion research.
- DOK 3:** You can conclude that water is a necessary component for life, because the early missions were under the theme of "Follow the water." Once they found the potential for water, the next step was missions under the theme "Seek signs of life." This suggests a connection.
- DOK 4:** The retropropulsion technology being tested to land humans safely on Mars supports the author's claim that science will make it possible for Mars colonization.
- DOK 4:** The use of absolute or extreme language is alarming and is meant to frighten the reader into agreeing, but it often makes the reader doubt the author's claims.

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RESPOND

ANALYZE THE TEXT

Support your responses with evidence from the text. NOTEBOOK

- Infer** Why might the government have shifted from supporting space travel through NASA to prioritizing commercial travel?
- Cite Evidence** How could space mining aid in scientific research? Cite evidence from the text that explains the importance of space mining.
- Draw Conclusions** Review paragraph 8. What can you conclude from the support provided by the author about the connection between water and the possibility of life on Mars? Explain.
- Explain** Why does the fact that New Space pioneers are testing supersonic retropropulsion technology support the author's claim? How does it add to your understanding of the argument?
- Notice & Note** Explain the overall effect that the author's use of extreme or absolute language has on the reader. Does it make you more persuaded by the argument, or less so? Why?

RESEARCH

The *Cassini* orbiter ended its journey in 2017. Research the details of its contributions. Record what you learn in the chart.

QUESTION	ANSWER
What were the goals of the <i>Cassini</i> orbiter mission?	to find out more about the universe, and Saturn and its moons, especially Titan
What important discoveries did <i>Cassini</i> make?	an ocean beneath the surface of Saturn's moon Enceladus, seven new moons, hurricanes at Saturn's poles, Saturn's rings are made up of massive and tiny particles