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Activities

Mysterious Titan

Name: _____ Date: _____

Some scientists say Saturn's icy moon Titan is a promising place to look for living things. Far below its frozen surface, there may be huge oceans that harboring life. In this Planet Diary activity, you'll take a close look of this mysterious moon.

Directions

- Go to the Cassini Equinox Mission Titan page. Read the introduction below the picture, then answer Workspace question 1.
- Start in the atmosphere and work your way down to the surface. Roll your mouse over *Haze* to the right of the picture. Read the caption, then answer question 2.
- Mouse over *Atmosphere* and read the caption. Answer question 3. Continue to the *Surface* and answer question 4. Then take the plunge to the *Interior* to find out about its oceans. Answer question 5.
- For an even closer look, go to NASA's Saturn Moon Explorer: Titan and take the fly-by tour. Use the pause control at the lower left or *Replay* to see it again. Then answer the last question.
- Click *Next Section* when the flyby tour completes, for an awesome 3-D view of the moon. Click surface features to learn more about them. Explore the *Latest Images* for other cool views.

Workspace

1. How does Titan resemble early Earth?

2. What causes the haze in Titan's atmosphere?

3. What kind of rain does Titan have?

4. Describe what Titan's surface is like.

5. What is Titan's ocean made up of? How far below the surface is it?

6. What's the significance of Titan's hydrocarbon lakes?

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