

**History Channel's Universe: Saturn: Lord of the Rings**

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

1. Why would you weigh less on Saturn than you would on the Earth, even though Saturn has a much greater mass than Earth does? (3:00)

2. Fill in the following table concerning Saturn. (4:00)

How many times the diameter of Earth is Saturn?	How many Earths could you stuff inside Saturn?	How long is 1 day on Saturn?	How long is 1 year on Saturn?	How much less is Saturn's gravity compared to Earth's?	How many known moons does Saturn have?

3. How did Saturn form? (5:00)

4. What are Saturn's rings made of? (6:30)

5. How were Saturn's rings made? (8:00)

6. What keeps Saturn's rings from vanishing completely? (14:30)

7. What are Shepherd Moons and how do they keep Saturn's rings in place? (15:00)

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8. How is the South Pole Storm on Saturn different from the Giant Red Spot on Jupiter? (20:00)
9. How is Saturn's moon Titan's surface similar to Earth? (26:00)
10. What makes Titan's atmosphere so significant in terms of its composition? (28:00)
11. What shapes the surface of Titan? (32:00)
12. What do the active geysers on Enceladus indicate about the geology of Enceladus? (35:00)
13. How is Enceladus helping to make the E ring on Saturn exist? (37:00)
14. What evidence of possible life can be found at Enceladus? (39:00)

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