

**History Channel's Universe: Jupiter: The Giant Planet**

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

1. What is the chemical composition of Jupiter? (1:50)

2. Fill in the following table concerning Jupiter. (2:05)

How many times the diameter of Earth is Jupiter?	How many Earths could you stuff inside Jupiter?	How long is 1 day on Jupiter?	How long is 1 year on Jupiter?	How much greater is Jupiter's gravity compared to Earth's?

3. Why would it be so difficult for humans to visit Jupiter? (3:30)

4. How was Jupiter thought to have formed? (5:20)

5. How does the large mass of Jupiter act to protect Earth from solar system debris? (7:00 to 10:45)

6. What causes Jupiter's 12,000 mile wide Great Red Spot? (13:20 to 17:00)

7. What would weather and thunderstorms be like on Jupiter? (18:00)

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- 8. What causes the jet stream zones and their opposite winds on Jupiter? (20:30)
- 9. How many moons does Jupiter have and why does it have so many? (22:30)
- 10. What are the four main Galilean moons (Medici Stars) of Jupiter discovered by Galileo Galilei? What are their basic characteristics? (23:00)

I	Eat	Good	Candy
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- 11. What could hydrothermal vents under Europa's ocean do for promoting the possibility of life there? (30:00)
- 12. What is a magnetosphere and what effects does it have on Jupiter's environment? (35:00)
- 13. What frequency on the radio should you tune your tuner to hear radio emissions from Jupiter's magnetosphere? (39:00)
- 14. What causes rings around a gas giant planet like Jupiter? (41:00)

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