Other Planets' Auroras Scavenger Hunt

Overview:

Students navigate the Other Planets' Auroras unit of the *Aurora Alive* multimedia video playlist to find answers to the questions on the STUDENT WORKSHEET: "Other Planets' Auroras Scavenger Hunt."

Objectives:

The student will research information by interacting with the *Aurora Alive* multimedia video playlist.

Materials:

- *Aurora Alive* multimedia video playlist
- STUDENT WORKSHEET: "Other Planets' Auroras Scavenger Hunt"

Activity Procedure:

Distribute the *Aurora Alive* DVD and the STUDENT WORKSHEET: "Other Planets' Auroras Scavenger Hunt." Ask students to complete the worksheet by navigating the playlist to learn the answers to the questions.

Answers to Student Worksheet:

1. *Caroline Lucretia Herschel*
2. *Jupiter*
3. *Uranus, Pluto*
4. *aurora oval*
5. *true*
6. *Venus, Earth, Jupiter, Saturn, Uranus, Neptune*
7. *Earth, Jupiter, Saturn, Uranus, Neptune*
8. *Jupiter, Saturn*
9. *Uranus, Neptune*
10. *Venus*
11. *Hydrogen, Helium*
12. *Earth, Jupiter, Saturn, Uranus, Neptune*

Name:_____ **Student Worksheet**

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Directions: Use Unit 10 of the *Aurora Alive* playlist to help you answer the ques-tions below.

1. Which scientist discovered the planet Uranus with her brother?
   _____
2. Name the largest planet in our solar system. _____
3. Name one planet that is tilted so that it is nearly on its side. _____
4. When planets collide with particles in the solar wind, have a thick atmosphere of gas, and have strong magnetic fields, they meet the conditions needed to have an _____.
5. True or False: The solar wind travels around all the planets in our solar system.
6. Name the six planets that have atmospheres thick enough to have auroras:
   _____, _____, _____,
   _____, _____, and _____.
7. Name the five planets that have magnetic fields strong enough to support aurora ovals:
   _____, _____, _____,
   _____, and _____.
8. Earth, _____, and _____ all have similar auroras that look like crowns of light.
9. Most auroras show up as arcs of light near the equators of _____ and _____.
10. Which planet has a thick atmosphere but no magnetic field, so it has no aurora ovals?
    _____
11. Name the two gases in Jupiter's atmosphere that create a violet-blue aurora.
    _____ and _____.
12. Name the five planets in our solar system that have all 3 conditions needed for aurora ovals: _____, _____,
    _____, _____, _____.

