

Glowing Shapes Scavenger Hunt

Overview:

Students navigate the Glowing Shapes unit of the *Aurora Alive* multimedia video playlist, to find the answers to questions on the STUDENT WORKSHEET: “Glowing Shapes 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: “Glowing Shapes Scavenger Hunt”



Activity Procedure:

Distribute the *Aurora Alive* playlist and the STUDENT WORKSHEET: “Glow-ing Shapes Scavenger Hunt.” Ask students to complete the worksheet by navigating the DVD to learn the answers to the questions.

Answers to Student Worksheet:

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|--|-----------------------------|
| 1. <i>Dr. Syun-Ichi Akasofu</i> | 7. <i>corona</i> |
| 2. <i>all-sky</i> | 8. <i>true</i> |
| 3. <i>aurora substorm</i> | 9. <i>patches</i> |
| 4. <i>quiet arc; rayed bands (corona);
patches; long aurora rays</i> | 10. <i>early morning</i> |
| 5. <i>quiet arc</i> | 11. <i>long aurora rays</i> |
| 6. <i>magnetic field lines</i> | 12. <i>brighter</i> |

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Directions: Use Unit 6 of the *Aurora Alive* playlist to answer the questions below.

1. Which scientist discovered the aurora substorm? _____
2. The aurora substorm was discovered by studying films of the aurora made from what type of camera? _____
3. What is the name of a burst of activity that makes the aurora brighten suddenly for two or three hours several times each day? _____
4. List the shapes of aurora displays in the order they occur throughout the night.

5. What aurora shape looks like a thin, green curtain that stretches from horizon to horizon?

6. Rayed bands are vertical bars of light aligned with Earth's _____.
7. Which aurora shape is an optical illusion? _____
8. True or False: In the corona shape, the long rays of aurora, which follow Earth's magnetic field lines, appear to come together in the middle, but they do not. _____
9. What aurora shape looks like puffs of smoke or fluffy clouds? _____
10. When do long aurora rays occur? _____
11. What aurora shape is made up of broken parts of an arc or rayed band?

12. Northern lights cannot be seen after the sun rises because daylight becomes _____ than the northern lights.