

Dynamic

Aurora 25 min

Read the following questions before the video begins, and answer as the video is in progress. Most of the important information in the video is spoken, so try to resist the temptation to be entranced by the images of the aurora and listen to the science behind the beauty.

1. In the electrical storm above the earth, there is enough energy to power the _____ every day.
2. The stream of charged particles being blown through space is called the _____.
3. Scientists once believed that the aurora was once caused by
 - A. violent chemical reactions
 - B. millions of micro-meteors
 - C. reflected sunlight
 - D. Zeus, Lord of Thunder
4. The sun releases _____ tons of matter each second
5. Atoms release photons to create the aurora after being struck by _____.
6. In a thin oxygen atmosphere, the aurora appears _____.
7. If the atmosphere were more dense, would the aurora appear at ___ higher or ___ lower altitude?
10. The center of the auroral over is the _____.
11. In the presence of a magnetic field, electrons move _?_ magnetic field lines
 - A. perpendicular to
 - B. along
 - C. against
12. As the solar wind flows around the earth, what shape is the magnetosphere pulled into?
13. The northern and southern lights are _____ images of each other.

14. How can one “hear” the aurora?

15. When the aurora appears to originate from a point directly overhead it is referred to as a

16. Why must the Alaskan pipeline be electromagnetically shielded?