

North Carolina Science Olympiad, Spring 1998

Surfing the Net

Find answers to the following questions on the Internet. Write your answer and its location after each question. You must include both for full credit! You may answer questions in any order.

1. What are the three parts of a DNA nucleotide?

URL:

2. Varicella-zoster is commonly known as _____.

URL:

3. Name the world's largest and second largest butterflies and where they are found.

URL:

4. Find the empirical formula of a compound that is 48.38% carbon, 8.12% hydrogen, and 53.5% oxygen by mass.

URL:

5. Name the scientists who won an award for showing that man-made objects such as spray cans and air conditioners can harm the earth's stratospheric ozone layer.

URL:

6. Jack Kirkland is a founding father of a science that deals with the analysis of mixtures of compounds. What is the name of this process?

URL:

7. What is a Dust Lane and how can it be seen?

URL:

8. What are the three categories for the most fundamental particles in the Standard Model?

URL:

9. A neutron with momentum has a de Broglie wavelength. This wavelength changes as the neutron changes altitude. How do we detect the change in wavelength?

URL:

10. The doubling of carbon dioxide in the atmosphere is expected to change the radiation balance by 2%. What do global climate models predict for the amount of rise in global temperature with this change?

URL:

11. What is the Hawaiian name for lava that has a smooth, billowy, or ropy surface in its solidified form?

URL:

12. Three types of _____ are spreading zones, transform faults, and subduction zones.

URL:

13. What instrument has the capability to sense the heat of dark, faint, or hidden objects in the universe? What does SIRTIF stand for?

URL:

14. In the 1990s, a pesticide spill in a Florida lake was suspected of disrupting the hormones of an animal that lived in the lake. Which animal?

URL:

15. What are the two categories of spiral galaxies? Describe the look of each one.

URL:

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