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## Women in Science

Throughout history, women have generally had fewer opportunities to succeed in scientific careers than men. Education was often unequal between boys and girls, and many schools and scientific institutions did not even allow women to enroll! Today, women in many parts of the world have a better chance to succeed in scientific careers than did women of the past. How have women overcome challenges to make their mark on the history of science? What important scientific achievements have women made that impact the world today? Let's learn about some notable women scientists of the past and present!



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### Find It!

Find the answers to the questions below by using the "Search" tool.

Since this section is about Ada Lovelace, you can start by searching the key words "Lovelace, Ada."

Write the answers on the lines provided or below the question.

1. Ada Lovelace wrote the first published \_\_\_\_\_.
2. Lovelace was interested in the work of the mathematician \_\_\_\_\_ and she worked as his associate for a number of years.
3. In what year was the computer programming language, Ada, named in Lovelace's honor?
  - a. 1815
  - b. 1838
  - c. 1979
  - d. 2011

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*Look for the answers to the following questions in the "Cannon, Annie Jump" article.*

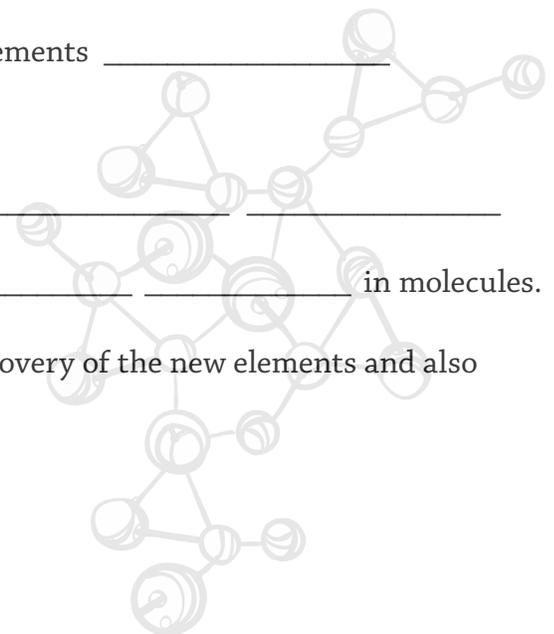
4. Annie Jump Cannon developed a system of classifying \_\_\_\_\_.
5. Which of the following objects did Cannon discover?
  - a. A binary star
  - b. 5 novae (types of exploding stars)
  - c. 300 variable stars
  - d. All of the above

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*Look for the answers to the following questions in the "Picotte, Susan La Flesche" article.*

6. Susan La Flesche Picotte was the first American Indian woman to become a \_\_\_\_\_.
7. What did Picotte do in 1913 to help the Omaha people?

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*Look for the answers to the following questions in the "Curie, Marie Skłodowska" article.*

8. Marie Skłodowska Curie achieved many firsts! List three of them below.
  1. She was the first woman awarded \_\_\_\_\_.
  2. She was the first person to win \_\_\_\_\_.
  3. She was the first woman to teach at \_\_\_\_\_.
9. Curie and her husband, Pierre, discovered and named the elements \_\_\_\_\_ and \_\_\_\_\_.
10. Curie theorized that radioactivity was a property linked to \_\_\_\_\_ rather than one that depended on the \_\_\_\_\_ in molecules.
11. In 1911, Curie won the Nobel Prize in chemistry for her discovery of the new elements and also for her work in isolating and studying which element?
  - a. Francium
  - b. Polonium
  - c. Radon
  - d. Radium



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*Look for the answers to the following questions in the “Lehmann, Inge” article.*

12. Inge Lehmann was the first scientist to \_\_\_\_\_  
\_\_\_\_\_.

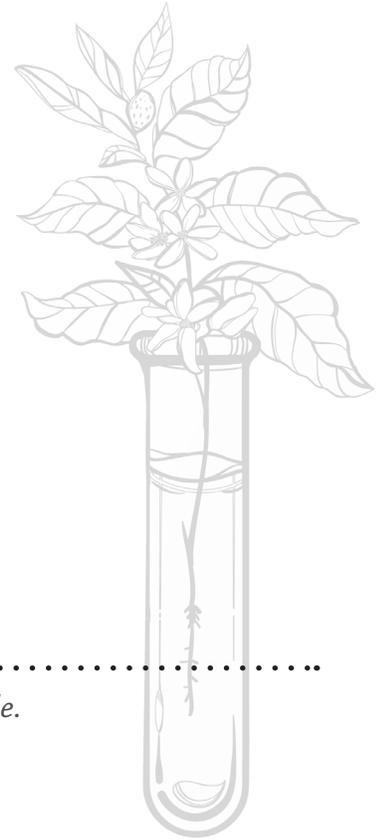
13. What made the school that Lehmann attended unusual for its time?

14. What generated the pressure waves, or P waves, that Lehmann observed?

- a. Volcanoes
- b. Earthquakes
- c. Hurricanes
- d. Stampeding elephants

15. Circle the two metals that make up most of the Earth’s inner core.

- |          |         |          |
|----------|---------|----------|
| aluminum | lead    | silver   |
| copper   | mercury | titanium |
| iron     | nickel  | zinc     |



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*Look for the answers to the following questions in the “Kwolek, Stephanie Louise” article.*

16. What is Kevlar?

17. \_\_\_\_\_ are long chains of molecules that can be spun into fibers and made into fabrics or plastics.

18. Kevlar is now used to make many different items. List six of them below.

- |          |          |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

.....  
*Look for the answers to the following questions in the “Rubin, Vera” article.*

19. Vera Rubin discovered key evidence to support the theory of \_\_\_\_\_, an invisible form of matter thought to make up as much as 90 percent of the matter in the universe.

20. Rubin and the astronomer W. Kent Ford conducted a study of about 60 \_\_\_\_\_.

21. What award did Rubin win in 1993?

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*Look for the answers to the following questions in the "Goodall, Jane" article.*

22. Jane Goodall is best known for her studies of which animals?

- a. Chimpanzees
- b. Gorillas
- c. Hyenas
- d. Lions



23. How did Goodall win the trust of many chimpanzees?

24. Goodall found that the diet of chimpanzees includes \_\_\_\_\_ and \_\_\_\_\_.

25. List three behaviors that Goodall discovered in chimpanzees, to the surprise of many scientists.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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*Look for the answers to the following questions in the "Jemison, Mae Carol" article.*

26. Mae Carol Jemison became the first black woman to \_\_\_\_\_

27. Aboard the spacecraft Endeavor, Jemison conducted the first experiment that fertilized \_\_\_\_\_ in space.

28. Jemison also studied the loss of \_\_\_\_\_ experienced by people and other animals in orbiting spacecraft.

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*Look for the answers to the following questions in the “Wood, Fiona” article.*

29. What is Fiona Wood known for?
30. Thanks to the work of Wood and the Australian medical scientist Marie Stoner, healthy skin cells can now be harvested and \_\_\_\_\_ onto a burn wound within \_\_\_\_\_ minutes.
31. In what year was Wood made a Member of the Order of Australia?
- a. 1999
  - b. 2003
  - c. 2005
  - d. 2012

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*Look for the answers to the following questions in the “Tu, Youyou” article.*

32. What prize did Youyou Tu win in 2015 for developing a highly effective drug to treat malaria?
33. What kind of texts did Tu study to find a treatment for malaria?
34. List the three names for the plant that Tu used to produce a treatment for malaria.
- 1. \_\_\_\_\_
  - 2. \_\_\_\_\_
  - 3. \_\_\_\_\_

