

Activity Guide for Students: Who are the SN 10 Scientists?

Purpose: To gain a better understanding of the character traits, personal qualities, career paths, STEM-related research fields and the science behind the SN 10 scientists' research.

Procedural overview: Work in groups of two or three to come up with Jeopardy!-like answers and questions about the SN 10 scientists. Once answers are submitted, your teacher will prepare a game for the next class.

Instructions: Each group is assigned a different scientist from the 10 scientists profiled in this issue of *Science News*. After reading the article and taking notes, work with your group to come up with Jeopardy!-style answers and questions for your assigned scientist, based on information in the *Science News* article. Don't forget to word your Jeopardy!-style clues as answers, so that the audience will answer the clues with a question. Groups should come up with one answer and its corresponding question for each of six categories. Your teacher will cut this handout apart and mix your answer/question pairs with those of other groups. When playing the game, you will not be allowed to answer a question that your group submitted, so it is important to write the names of your group members on each answer/question pair:

1. Personal traits: things that helped the scientist succeed

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

2. Inspiration to be a scientist: things that inspired this person to become a scientist

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

3. Research objectives: What question is this scientist trying to answer?

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

4. Fun fact: Something unique or surprising about this scientist's research

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

5. Name that STEM field: Can contestants guess the researcher's field based on your question?

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

6. What else could you do?: other types of STEM jobs in the scientist's field(s)

Jeopardy!-style answer:

Jeopardy!-style question:

Names of your group members:

After the game is over, spend time answering the following questions:

1. What personality traits are shared by many or all of the scientists? Why might that be?
2. What are some common sources of inspiration to become a scientist? For students in the class who would like to go into STEM careers, what has inspired you? If you want to pursue careers outside of STEM, what has inspired you?
3. How do (or should) scientists choose their research objectives?
4. What are the methods that scientists use to solve different problems?
5. How many different STEM fields are represented by these scientists? What important STEM fields are not included in this small sample of scientists?
6. What have you learned about scientific careers from these articles and this activity?