**SCIENCE EXPERIMENT RUBRIC**

Project Due Date: March 2nd, 20XX

Name of Scientist: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This is an independent project where students will research a particular scientist (living or not-living) that made some sort of contribution to space science. Whether the scientist invented something, made something better, contributed enormous ideas, or discovered something, we want to know about it!

**You have 5 choices for the type of project that you complete**.

1. **News Article:** Write a front-page news story/article about your scientist and explain how he/she and the invention, discovery, contribution affects your life.
2. **Children’s Book:** Create a printed children’s book, important details about your famous scientist, including pictures.
3. **Poster:** Create a full color poster of your famous scientist including all-important facts.
4. **Model:** Create a small 3-D (physical) model that represents what your famous scientist achieved, with a written informational speech).
5. **Digital Presentation:** Create a digital presentation that includes important details about your famous scientist, including pictures.

**What should be included in your project**?

1. The first, middle and last name of your scientist.

2. A mug shot (picture of your scientist).

3. Years living (examples: 1901-1959; 1973 - ?)

4. Their field of study (for example: biology, zoology, marine biology, botany)

5. The country they were born in.

6. Where they did / do their work.

7. A description, in your own words, of what your scientist is most famous for.

8. Pictures, graphics or illustrations of what your scientist is famous for.

9. A paragraph, in your own words, explaining how their accomplishment has benefited the world.

10. Two interesting facts about your scientist.

11. A quote by your scientist

12. Any other important information you can find

**Display of Information Requirements:**

**1. Your work must be attractive.**

By attractive I mean neat. If your handwriting is sloppy, you should type it. You should have proper spelling and complete sentences. Capitalization and punctuation is also required.

**2. Your work must be colorful.**

I should see vivid color. Use markers, paper, and other supplies to enhance the overall look of your final product. When looking at your project the class should say, “you really took the time to make your project”.

**3. Your project must be creative.**

Think of ways to make your project stand out from the crowd. Use all of the space available to you.

**4. Your project must be informative.**

To meet this requirement, you must complete all of the research on your assigned scientist. You should think carefully about how they benefited the world and present this to your readers so that they believe that your scientist is truly a FAMOUS scientist.

**You may choose one of the following scientists (any others must be approved by the teacher):**

1. Charles Messier

2. Nicolaus Copernicus

3. William Herschel

4. Johannes Kepler

5. Edwin Hubble

6. Hipparchus

7. Galileo Galilei

8. Isaac Newton

9. Carl Sagan

10. Stephen Hawking

11. Giovanni Cassini

12. Edmond Halley

13. Charles Messier

14. Henrietta Swann Leavitt

15. Frank Drake

16. Maria Mitchell

17. Ellen Ochoa

18. Wernher von Braun

19. Johann Gottfried Galle

20. Micheal E. Brown

21. Christian Huygens

22. Thomas Gold

23. Joseph-Louis Lagrange

24. Edmund Halley

25. Caroline Hershel

26. Annie Jump Cannon

27. Fritz Zwicky

28. Willebrord Snell

29. Tycho Brahe

30. J. Allen Hynek

|  |
| --- |
| **Space Science Innovator Project Rubric** |
| **Scientist Name** | The first, middle and last name of your scientist. | \_\_\_\_\_\_/1 |
| **Mugshot** | A mug shot (picture of your scientist). | \_\_\_\_\_\_/2 |
| **Time Period** | Years living (examples: 1901-1959; 1973 - ?) | \_\_\_\_\_\_/1 |
| **Study** | Their field of study (for example: biology, zoology, marine biology, botany) | \_\_\_\_\_\_/1 |
| **Birthplace** | The country they were born in | \_\_\_\_\_\_/1 |
| **Location** | Where their research or work was done | \_\_\_\_\_\_/1 |
| **Description** | A description, in your own words, of what your scientist is most famous for. | \_\_\_\_\_\_/2 |
| **Pictures** | Pictures, graphics or an illustration of what your scientist is famous for. (3 minimum) | \_\_\_\_\_\_/3 |
| **Accomplishments** | A paragraph, in your own words, explaining how their accomplishment has benefited the world. | \_\_\_\_\_\_/5 |
| **Appearance** | Two interesting facts about your scientist. | \_\_\_\_\_\_/2 |
| **Quote** | A quote by your scientist | \_\_\_\_\_\_/1 |
| **Quality of Presentation** | Attractive, colorful, creative, and informative project is presented.  | \_\_\_\_\_\_/20 |
|  | **TOTAL POINTS** | \_\_\_\_\_\_/40 |