Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_Period: \_\_\_\_\_\_\_\_

**Atomic Theory Timeline**

**Science standard:** Explore the scientific theory of atoms by recognizing that atoms are the smallest unit of an element and are composed of sub-atomic particles. Benchmark SC. 8. P.8. 7

|  |  |  |
| --- | --- | --- |
| **Task**:  Create a timeline exhibit for a science museum that charts the development of the atomic theory. You must include contributions, diagrams, and dates from the following people: Democritus, John Dalton, J. J. Thompson, Ernest Rutherford, Niels Bohr, Other modern scientists who contributed to the cloud model, and James Chadwick. The timeline may be displayed on a poster, foldable, or a brochure. Additionally, the vocabulary terms on the back of this page must be defined in your own terms. | **Total points = 24**  **A =22 - 24**  **B= 19 - 21**  **C= 16 - 18**  **D= 15 - 17**  **F= 14 and Below** |  |
| * Did you organize the information in chronological order? When did the timeline begin when did it end?   Begin\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_End\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Not Done**  **0** | **Working on it**  **1-3** |
| * Did you include a date, diagram, and contribution for Democritus? |  |  |
| * Did you include a date, diagram, and contribution for John Dalton? Give one example from Dalton’s Atomic Theory. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| * Did you include a date, diagram, and contribution for J. J. Thompson? |  |  |
| * Did you include a date, diagram, and contribution for Ernest Rutherford? What did Rutherford and his team predict? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| * Did you include a date, diagram, and contribution for Niels Bohr? |  |  |
| * Did you include a date, diagram, and contribution for the electron cloud model? |  |  |
| * Did you include a date, diagram, and contribution for James Chadwick? |  |  |

Vocabulary

1. Scientific Theory:
2. Scientific model:
3. Compare:
4. Contrast:
5. Atom:
6. Neutron:
7. Proton:
8. Electron:
9. Nucleus:
10. Energy Level:
11. Electron Cloud:
12. Mass: