**YEAR 9 SCIENCE CHEMISTRY ASSIGNMENT 2018**

History of the Atomic Model



Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Aim:** This assignment will allow you to see how the Atomic Theory started as a philosophical idea and through scientific experimentation over time, has been developed to include the current Electron Cloud Model. As scientists discovered more information they discarded parts of older theories to design an atomic model that provided a more accurate representation of the atom. It is important for scientists to challenge current theories and modify them as more knowledge becomes available.

Your research will provide you with a historical perspective of our knowledge of the atom’s structure as well as more detailed knowledge of a specific scientist involved in atomic model development.

**1. Create a timeline that shows the history of the atomic model.**

🞟 Use information from pages 8, 9 of Pearson Science 9 text book.

🞟 Include the year, atomic model name, scientist who discovered or developed that specific atomic model.

🞟 Must be neatly hand drawn, in pencil, using a ruler.

**2. Choose one of the following scientists to research.**

🞟 Ernest Rutherford 🞟 Neils Bohr 🞟 Sir James Chadwick

🞟 Sir Joseph J. Thomson 🞟 Philipp Lenard

1. Date of birth.
2. Place of birth.
3. Date of death.
4. Early life - information on their family life and where they grew up.
5. Where they completed their education.
6. A brief summary of what was going on in world history at the time they lived (e.g. World War 1).
7. The name of the atomic model they developed or discovered.
8. A description of the atomic model they developed or discovered.
9. A labeled hand drawing of the atomic model.
10. Awards or recognition they received (e.g. Nobel Prize, 1st person to…)
11. What else they did for a job or profession.
12. A description of some of their other contributions to science beside atomic theory.
13. A quote by your scientist or an interesting fact about your scientist.

**Plagiarism**

🞟 This assignment is to be done individually, not with a partner.

🞟 You must write in your own words not copy sentences word for word from another student or

another source.

🞟 Plagiarising = instant zero on assignment and you will have to re-do it.

**Assignment requirements**

You will have **3** sessions of in-class time to research and commence the timeline and the scientist report.

*You must hand in* ***this assignment sheet, completed reference list, hand written notes, timeline and your scientist report*** *in person to your teacher on or before the due date.*

Due for hand in all above things will be 2 days after the final class.

**MARKING KEY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Content** | **Description** | **Possible**  **mark** | **Your**  **mark** |
| Timeline | Appropriate title  Neat - used a pencil and ruler  Correct dates are in order  Correct information clearly stated for each date | 1  1  1  8 |  |
| Scientist  research | Date of birth  Place of birth  Date of death  Early life - minimum 2 sentences  Education – minimum 2 sentences  Summary of history at time - minimum 2 sentences  Description of specific atomic model - minimum 2 sentences  Atomic model diagram  - Neatly hand drawn in pencil  - Correctly labeled  - Takes up minimum 1/3of page  Awards or recognition  Other jobs or professions - minimum 2 sentences  Other contributions to science - minimum 2 sentences  Quote or interesting fact | 1  1  1  2  2  2  2  2  1  2  2  1 |  |
| Notes | Hand written notes are attached | 1 |  |
| Referencing | Minimum of 2 references  Referenced in correct format | 2  2 |  |
| Presentation | Cover page - full name, form, teacher, assignment title  Neat  The use of headings - clear separation of sections  Correct spelling, grammar, full sentences  Relevant images or pictures – referred to in the text | 2 |  |
| **Total mark** | | 37 |  |

Mark as percentage %

Teacher’s comments:

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