**Atomic Discovery Timeline**

Using your information from this week create a timeline poster showing the progression of the understanding of atomic structure. It is expected you use appropriate scientific language. For each scientist include the following information:

1. Scientist’s name
2. Labeled drawing of their understanding of the atom
3. Evidence that led the scientist the new understanding
4. Explanation of the new finding

You may complete the timeline with a partner (without other materials/notes). It is expected you use your time to discuss the experiments and changes, and how to best represent this in your timeline. It is also expected that you only work with your partner, and not other sets of students.

5 minute fact check – while the big picture may be easier to remember, the there may be details that slip your mind. When we have 10 minutes to go, I will give you a 5-minute fact check. In those 5 minutes, you may use your notes to double-check your work. After the fact check is done, you will have the final 5 minutes to complete your timeline. You should be at a point near completion, as you approach the 5-minute fact check. (The five minutes will not be enough to magically complete the assessment, if you haven’t done anything)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** |
| **Drawing of atom** | All drawings are labeled, complete and accurate | Drawings are mostly labeled, complete and accurate | Drawings are only partially labeled, complete or accurate | Drawings have many missing labels, are incomplete or inaccurate |
| **Evidence for model** | Clear understanding of the evidence leading to a new model is shown | Basic understanding of the evidence leading to a new model is shown | Partial understanding of the evidence leading to a new model is shown | Minimal understanding of the evidence leading to a new model |
| **Key finding for each change to the model** | Each new addition to the understanding of the model is clearly explained | New additions to the understanding of the model are somewhat explained | New additions to the understanding of the model are listed, but are incomplete | New additions to the understanding of the model are missing or incorrect |
| **Scientific vocabulary** | Appropriate scientific language is used throughout the timeline | Scientific language is used somewhat, errors and omissions do not detract from overall meaning | Scientific language is used somewhat, errors and omissions detract from overall meaning | Scientific language is either not sufficiently attempted, or if attempted is inappropriately used |
| **Overall** | Timeline is clearly organized and information is complete and easy to follow | Timeline is somewhat organized and key information is present | Timeline may not be in correct order, but some information on each scientist is present | Timeline is difficult to follow and/or significant information is missing or incorrect |