Activity: Scientist Infographic

FOR THE TEACHER

Summary
In this activity, students will design and publish an infographic focused on a well-known scientist and their contribution to the development of the atomic model.

Grade Level
Middle school or High School

Objectives
By the end of this activity, students should be able to
- Research and gather information on a selected scientist.
- Design a clear and informative infographic using templates and tools from a selected website
- Understand the contribution made by a scientist to the development of the atomic model
- Share their scientist infographic to the class.

Chemistry Topics
This activity supports students’ understanding of
- Atomic Structure
- Atomic Theory
- Scientific contributions of some famous scientists
- History

Time
Teacher Preparation: 30 Minutes
Lesson: 1-2 class periods

Materials
- Computer with internet connection
- Easelly Website: https://www.easel.ly/
- Guiding Questions
- Scoring Rubric
Teacher Notes

- Easel.ly is pretty easy to use, but I recommend that the teacher investigate the site in advance to familiarize himself/herself with the different options. This link will take you to a short tutorial video about the site.
- What the student puts on the infographic can be as open-ended as the teacher wants. The guiding questions and rubric can be adapted to the project and level of students.
- Any info can easily be found through internet searches. The teacher can require an additional page of sources if desired.
- This infographic activity is done when students are learning about scientists of historical importance, such as Dalton, Thomson, Rutherford, Chadwick, Bohr, etc. and their particular contribution to the atomic theory. However, this could easily be adapted and used in other units of study as well.

For the Student
Lesson

Scientist Infographic

Background
There are many scientists who contributed to the development of the atomic model. These scientists are credited with discovering an important aspect of atomic structure and its development over time, as well as the growth of the science of chemistry. Knowing the history of these great scientists is a key component of learning how the concepts of chemistry were developed and refined over many years.

Objective
You will create an infographic of a selected or assigned scientist and explain their contributions to chemistry.

Materials
- Computer with internet connection
- Easelly Website: https://www.easel.ly/
- Guiding Questions
- Scoring Rubric

Guiding Questions
1. Who is the scientist? Provide relevant information.
2. What in science, specifically in chemistry, did he/she research or discover?
3. What was used to conduct the research or find the discovery?
4. Why is the research or discovery important to us as scientists today?
<table>
<thead>
<tr>
<th>Rubric</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Idea</td>
<td>The topic and messages of the infographic are clear and easily understood.</td>
<td>Topic and main ideas are clear.</td>
<td>Topic is given but main ideas are unclear and lacking.</td>
<td>Topic and/or main ideas are absent or very unclear.</td>
</tr>
<tr>
<td>Content Accuracy</td>
<td>At least 4 accurate facts/concepts are displayed in the infographic.</td>
<td>3 accurate facts are displayed.</td>
<td>2 accurate facts are displayed.</td>
<td>Fewer than 2 accurate facts are displayed.</td>
</tr>
<tr>
<td>Grammar</td>
<td>The infographic contains no grammatical errors.</td>
<td>The infographic contains few grammatical errors.</td>
<td>The infographic contains many grammatical errors.</td>
<td>The infographic lacks the ability to make grammatical sense.</td>
</tr>
<tr>
<td>Graphics-Relevance</td>
<td>The graphics used represent information appropriately.</td>
<td>Most graphics represent information accurately.</td>
<td>All graphics relate to topic but do not represent information appropriately.</td>
<td>Graphics do not relate to the topic.</td>
</tr>
<tr>
<td>Graphics-Visual</td>
<td>Color, shape, size, and arrangement of graphics contribute meaning to the overall message.</td>
<td>Color, shape, size, and arrangement are eye catching and contribute some meaning.</td>
<td>Color, shape, size, and arrangement are present but do not add to the information.</td>
<td>Color, shape, size, and arrangement are distracting or misleading.</td>
</tr>
<tr>
<td>Design/Layout</td>
<td>The design/layout is neat, clear, and visually appealing.</td>
<td>Is attractively in terms of design, layout, and neatness.</td>
<td>Is acceptably attractive though may be a bit messy.</td>
<td>Is distractingly messy, unattractive, or poorly designed.</td>
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