

## **Redesigning the Periodic Table**

In this project, we will use our design skills to redesign the periodic table. You are challenged with redesigning the periodic table in a way that educates others and shows an understanding of the topics we learned in this unit through the layout of your new periodic table. A good design should help educate and inform the viewer while at the same time look aesthetically pleasing. All design choices should be specific, have a reason, and help communicate information to your viewer.

### **Day 1 - Research & First Draft**

Research the elements in the periodic table. As a group, divide up the elements evenly and research your individually assigned elements regarding the following information:

- Name & Element Symbol
- Atomic Number
- Atomic Mass
- Standard State/Classification
- Atomic Radius, Ionization Energy, & Electronegativity
- Other important characteristics

After researching this information, begin a draft of your redesigned periodic table. Your new periodic table can be 2D or 3D and does not need to include all of the patterns and trends between the elements that you researched. Your table must provide the symbol, atomic number, and atomic mass for each element.

Resources: [PubChem PT](#), [Royal Society of Chemistry PT](#)

### **Day 2 & 3 - First Draft, Prototyping, & Final Draft**

Complete a first draft. Review the design with your group and begin prototyping. If you are making a 2D table, explore options such as [Google Slides](#), [Adobe](#), [Canva](#), or another graphic design platform so that it is neat and professional. If you are making a 3D table, prototype your design using the crafts supply. There are 3D printers that can be used if a CAD file is made of your design. After making necessary revisions, complete a final draft.

### **Day 4 - Presentation**

Present your design to your peers in a gallery walk with a digital poster. Each person must participate.

### Rubric

	5	4	3	2	1
<b>Poster</b>					A digital poster is presented and displays the motivation, reasoning, and brief explanation of the new design.
<b>Content</b>	All elements have the required information presented accurately.	Most elements have the required information presented accurately.	Many elements are missing one piece of required information.	Many elements are missing two pieces of required information.	Many elements are missing more than two pieces of required information.
<b>Research</b>	The new design reflects an excellent understanding of periodic trends and includes more than two research topics.	The new design reflects an excellent understanding of periodic trends and includes two research topics.	The new design reflects a good understanding of periodic trends and includes two research topics.	The new design reflects a moderate understanding of periodic trends and includes one research topic.	The new design reflects a poor understanding of periodic trends and includes one research topic.
<b>Design</b>			The new design is clear, organized, and looks professionally made. The table is easy to read, includes a key, and shows great effort and creativity.	The new design is clear, organized, and is good quality. The table is easy to read, but is missing some important components.	The new design is not organized, appears rushed, and is poor quality. The table is difficult to read, and is missing many important components.
<b>Presentation</b>					All group members participated in the gallery walk.

**This project is due on November 4 (B day) & 7 (A day) at 9 am.**