



**SCIENCE**

Memorize the periodic table of elements with music

**Level**  
6-12

**Essential Outcome(s)**

- Students will describe the atomic structure of an element, identify common physical properties and uses of elements within a family and demonstrate their understanding of a chemical element and its properties, discovery, and everyday use by creating a song.

**Learning Target OR Standards & Connections**

- **NGSS MS-PS1-3 Matter and its Interactions** - Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.
- **NGSS HS-PS1-1 Matter and its Interactions** - Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level of atoms.

**Activity / Project**

1. Assigns each pair of students a chemical element (or whatever objective you'd like memorized).
2. Students research and learn about their chemical element: its properties, the element group, facts, its discovery, and how it is used in everyday life.
3. The students write a jingle or rap based on their chemical element.
4. Using Soundtrap, the students capture their song by recording, adding loops, sound effects, etc.
5. Students can load some or all of the jingles/raps onto their phones as ringtones or share out via social media.

\*Since there are many elements, the teacher may want to give students four or five elements and ask them to address each element in their song.

**Extended Learning**

- **Cross-curricular Connection:** The teacher can team up with the school's music teacher to help students put together more complex raps and jingles that fulfill music requirements.

The author of this is **Meredith Allen**. Meredith is currently an Educational Specialist for Soundtrap. Prior to joining the Soundtrap team, Meredith served as an Instructional Technology Consultant at Prairie Lakes Area Education Agency in Iowa. Preceding her consulting, Meredith taught instrumental music, K-7 technology and facilitated a district's Virtual Reality Education Pathfinders program. She also served on their District Leadership Team, served as the district's Technology Integrationist, and assisted with implementation of the district's 1:1 computing initiative. Meredith has a Master's of Science in Technology for Education and Training and participated in the 2016 Iowa cohort of the national Teacher Leadership Initiative.

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