

Atomic Connections

Students create 3-D models of atoms and an element mosaic to visually represent how atoms make up our bodies.

 3 (50-minute) sessions

Big Idea:

Creating and visualizing the atoms that make up our bodies helps us connect what we are learning about in science to our personal lives.

Essential Questions:

- ✓ Which eight atoms are most prevalent in the human body?
- ✓ Approximately what percentage of each of these eight atoms can be found in all humans?
- ✓ Is there another element that you feel is essential to your existence? What is it called and what does it look like?

Alignment

National Arts Standards



VA: Cr.1.1.8a

Apply methods to overcome creative blocks.



VA: Cr.1.1.7c

Apply visual organizational strategies to design and produce a work of art, design, or media that clearly communicates information or ideas.

Studio Habits of Mind



Develop Craft

Envision

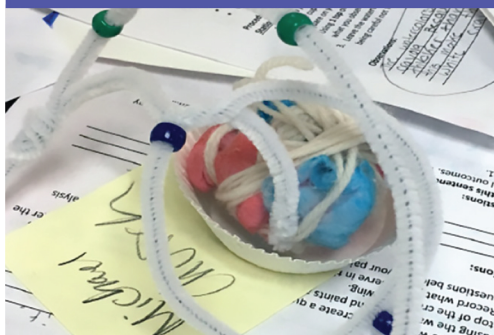
Understand Our Worlds

Module Snapshot

Materials

Example Learning Goals

SESSION 1



- Cotton balls, beads, pipe cleaners, etc.
- Tacky glue
- White string

1. I can accurately represent a given atomic element in a 3-D model.

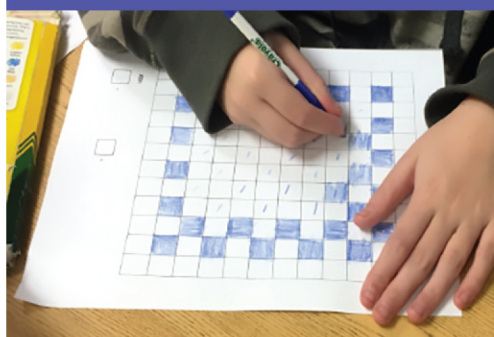
SESSION 2



- Cotton balls, beads, pipe cleaners, etc.
- Tacky glue
- White string
- Notecards

1. I can refine and complete my 3-D atom model.

SESSION 3



- Mosaic grid
- Cut up paper
- Glue stick
- Scissors

1. I can make a mosaic representing the basic elements in my body, along with elements I associate myself with.

Assessment

Formative

Students learn about the make-up of an atom by creating a 3-D model of a given atom.

Summative

Students each neatly create a mosaic representing the eight common elements in the human body and new elements they create themselves.