COLOR OUR WORLD | EIGHTH GRADE | S8P1. PERIODIC TABLE

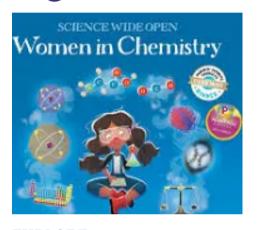
# **CONNECTIONS TO SCIENCE GUIDES**

GEORGIA YOUTH SCIENCE & TECHNOLOGY CENTERS, INC.

**SCIENCE WIDE OPEN: WOMEN IN CHEMISTRY** 

**BY: MARY WISSINGER** 





## **HAVE YOU EVER NOTICED...**

• that similar items are often grouped together in stores?

## **HAVE YOU EVER WONDERED...**

• how elements are organized on the periodic table?

## **EXPLORE**

#### **PERIODIC TABLE THROUGH PICTURES**

#### **Materials:**

- A large sheet of paper, poster board, or cardboard
- Colored markers
- Ruler
- Scissors
- Glue
- Magazines, newspaper, or printed images

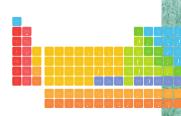
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#### **Directions:**

- Begin by drawing a grid on a large sheet of paper, poster board, or cardboard to represent the periodic table.
- Look through magazines, newspapers, or printed images to find pictures to represent the uses or characteristics of each element (i.e., a balloon for helium, a lightbulb for tungsten, etc.).
- Cut out those images and glue them onto the corresponding squares.
- Label the groups.
- As you are exploring, think about:
  - How are the properties of elements of the same group alike?
  - How does the periodic table help scientists understand the behaviors of elements?

#### **Connection to Art:**

 Collages encourage creativity, visual literacy, critical thinking, and fine motor skill development while enhancing your understanding of biodiversity.



# **EXPLAIN**PERIODIC TABLE

The periodic table is a chart that shows all of the chemical elements. Elements make up everything in the world. The smallest piece of an element called an atom, helps scientists organize them into rows and columns called groups. The periodic table tells us an element's atomic number, atomic mass, symbol, group, and period. This helps scientists understand the structure and behavior os elements, and even discover new elements.



# **EXTEND**TELLUS SCIENCE MUSUEM



The Tellus Science Museum in Cartersville, Georgia features an interactive periodic table where you can learn interesting facts about the elements and discover everyday objects that contain them.

# STEM CAREER CHEMIST

A chemist is a scientist who studies the composition, structure, and properties of matter. At work, chemists can investigate how substances interact, develop new materials, and test the quality of manufactured goods. If you are interested in looking at substances on a molecular level, being a chemist might be for you!





## **BACKGROUND**

The Georgia Youth Science and Technology Centers, Inc. provides quality programs for teachers of STEM subjects that improve the teaching and learning process at the kindergarten through eighth grade levels. We present programs that change students' perceptions and inspire an appreciation for science, technology, engineering, and mathematics subjects.

## **ABOUT US**

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