

FAIRBANKS MUSEUM & planetarium

What's the Matter?!

An Introduction to Matter, Elements, and the Periodic Table

Teacher: Bobby Farlice-Rubio

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The following instructions represent additional resources for continued study of the topics covered in our "What's the Matter" online class. All materials are the property of Science Educator Bobby Farlice-Rubio.

If you have not already done so,
please watch the "What's the Matter?!" video, available here:
<https://www.youtube.com/watch?v=FtYuvxvhV4s>
or in the Fairbanks Museum's K-2 Virtual Learning Archive:
<https://www.fairbanksmuseum.org/educate/virtual-classroom/k-2-virtuallearningarchive>

In the video, Bobby mentions many elements by name: Hydrogen (H), Oxygen (O), Carbon (C), Iron (Fe), Lead (Pb), Gold (Au), Sulfur (S), Sodium (Na), Chlorine (Cl), and Mercury (Hg) are some.

1. Make a chart with these ten (10) elements, and have a treasure hunt in your home! Find as many objects as you can that are made from these atoms. Get some help from an adult if you can. Read the labels on food and cleaning products! How many objects can you find?

2. EXTRA CHALLENGE! - Find objects made of Copper (Cu), Zinc (Zn), Aluminum (Al) and Silicon (Si)!

Sample Chart:

H	O	C	Fe	Pb	Au	S	Na	Cl	Hg
water	water	wooden table	hammer	chimney flashing	earrings	onion	salt	salt	thermo-stat

3. Thinking of those ten (10) elements, imagine if you had pure sample of each one. Which one(s) would be in the form of a gas? Which one(s) would be liquid? Which one(s) would be solid?

4. EXTRA CHALLENGE! Many molecules have funny names, but sometimes they tell you what they're made of: Iron Sulfide is made of Iron and Sulfur. Carbon Dioxide is made of Carbon and Oxygen. What is Dihydrogen Monoxide?