DATE: NAME: CLASS:

## CHAPTERS 1-3

## Quiz-Quiz-Trade: Atoms, Elements, and Compounds

Activity 3

Goal • Use this quiz-quiz-trade activity to build your understanding of the concepts in Unit 1.

## What to Do

- 1. **Quiz** Each card has a question at the top and an answer at the bottom. Take a card and choose a partner. Ask the question on your card. If your partner answers correctly, move to step 2. If your partner answers incorrectly, or doesn't know, share the answer, then move to step 2.
- 2. **Quiz** Repeat step 1 using your partner's card.
- 3. **Trade** Trade cards with your partner. Find a new partner and start the quiz-quiz-trade again.

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Question: What term describes anything that has mass and volume?	Question: Which is a physical property?  • Combustibility  • Luster  • Reactivity with acid  • Reactivity with water
Answer: Matter	Answer: Luster
Chapter 1	Chapter 1
<ul> <li>Question: Which is a chemical property?</li> <li>Conductivity</li> <li>Density</li> <li>Reactivity</li> <li>Texture</li> </ul>	<b>Question:</b> Which scientist believed the atom to be the same throughout and indivisible?
Answer: Reactivity	Answer: John Dalton
Chapter 1	Chapter 1
<b>Question:</b> Which scientist believed negative charges were scattered throughout the positive area of an atom?	<b>Question:</b> What term describes the smallest particle of an element and retains the properties of that element?
Answer: Ernest Rutherford	Answer: Atom
Chapter 1	Chapter 1

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**Question:** Which part(s) of the atom has **Question:** Which part(s) of the atom (have) a negative charge? make(s) up most of the mass of the atom? Electron Electron Electron and neutron Electron and neutron Proton Proton Proton and neutron Proton and neutron **Answer:** Electron **Answer:** Proton and neutron Chapter 1 Chapter 1 **Question:** What term is used to describe **Question:** Which part(s) of the atom is (are) found outside of the atom's nucleus? scientific descriptions of events, patterns, or relationships that have been observed Electron Electron and neutron over and over again? Proton Proton and neutron **Answer:** Electron **Answer:** Law Chapter 1 Chapter 1 Question: Which element has the **Question:** Which element has the chemical symbol Cu? chemical symbol N? **Answer:** Copper **Answer:** Nitrogen Chapter 2 Chapter 2

<b>Question:</b> Which element has the chemical symbol Hg?	<b>Question:</b> Which element has the chemical symbol CI?
Answer: Mercury	Answer: Chlorine
Chapter 2	Chapter 2
<b>Question:</b> Which element has the chemical symbol Fe?	<b>Question:</b> What is one of Mendeleev's two main contributions to the development of the periodic table?
Answer: Iron	Answer: Either of: First individual to organize the known elements according to their properties and chemical characteristics; recognized that spaces needed to be held for elements that had not yet been discovered
Chapter 2	Chapter 2
<b>Question:</b> The atomic mass of aluminum is 27 and its atomic number is 13. How many electrons does it have?	<b>Question:</b> The atomic mass of sodium is 23 and its atomic number is 11. How many neutrons does it have?
Answer: 13	Answer: 12
Chapter 2	Chapter 2

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Question: Which class of elements is the Question: Which is a property of nonlargest? metals? Halogens Conducts heat • Conducts electricity Metals Noble gases Ductile • Non-metals Dull **Answer:** Metals **Answer:** Dull Chapter 2 Chapter 2 **Question:** What is a horizontal row on the Question: What is the most stable and periodic table called? unreactive family of elements in the periodic table? **Answer:** Period **Answer:** Noble gases Chapter 2 Chapter 2 **Question:** What term is used to describe **Question:** What term describes a pure substance made of more than one kind of electrons in the highest energy level of an element in which the atoms of the atom? elements are joined together? **Answer:** Valence electrons **Answer:** Compound Chapter 2 Chapter 3

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<b>Question:</b> Which type of elements combines to form molecular compounds?	<b>Question:</b> Which types of elements combine to form ionic compounds?
Answer: Non-metals	Answer: Non-metals and metals
Chapter 3	Chapter 3
<b>Question:</b> What is the chemical formula for methane?	<b>Question:</b> What the name for a change resulting in the production of new compounds?
Answer: CH <sub>4</sub>	Answer: Chemical change
Chapter 3	Chapter 3
Question: Which is a chemical change?  • Apple ripening  • Sugar dissolving  • Butter melting  • Tomato being sliced	Question: Give any 3 of the 5 pieces of evidence that a chemical change may have occurred.
<ul><li>Question: Which is a chemical change?</li><li>Apple ripening</li><li>Sugar dissolving</li><li>Butter melting</li></ul>	<b>Question:</b> Give any 3 of the 5 pieces of evidence that a chemical change may have