

Name: _____

Discovery Techbook (Matter: Elements and Atoms)

_____ Elements (4:41)

- a. What is an element?

- b. How are the elements organized?

- c. Why were symbols developed?

- d. What is a compound?

_____ Elements in the human body, essential

- a. What are the three most abundant elements in the human body?

_____ Humans are stardust (2:06)

- a. Why are we considered to be made of stardust?

_____ Interactive Periodic Table

- a. Pick one element on the periodic table and give a brief summary of information that you gathered.

_____ The Smallest Piece of Matter: The Atom (1:15)

- a. What is the smallest piece of matter?

_____ Subatomic Particles (5:09)

- a. Where is most of an atom's weight found?

- b. What is the difference between a proton and a neutron?

- c. What characteristic determines which type of atom you have?

- d. Where are the electrons found in an atom?

_____ Build an Atom (Exploration)

- a. Helium: _____ protons, _____ neutrons, _____ electrons.

- b. Boron: _____ protons, _____ neutrons, _____ electrons.

- c. Carbon: _____ protons, _____ neutrons, _____ electrons

_____ **Chemical Bonds, Elements, Atoms, and
Compounds (4:56)**

- a. **All atoms have these three subatomic particles.**

- b. **Do elements have the same properties as they do when they bond chemically together to form a molecule?**

- c. **What are molecules?**

- d. **What are chemical reactions?**

_____ **Molecules: The Building Blocks of Life (2:30)**