

Topics/concepts/people covered on the quiz - understand them, recognize them, be able to explain them, know the symbols for them, and be able to give examples (and non-examples) of each:

Democritus	Aristotle	Alchemists	Isaac Newton
Robert Boyle	Antoine Lavoisier	Joseph Proust	John Dalton
atomic theory	isotopes	isotope charts	atomic number
mass number	proton	neutron	electron
radioactivity	Henri Becquerel	Marie and Pierre Curie	
law of multiple proportions		two ways to write an isotope	
4 things listed in each box on the periodic table		names and symbols for elements 1-40	

Practice questions:

1. Write the isotope with 93 protons and 140 neutrons in the two formats:

name format: _____ symbol format: _____

2. Fill in the following chart:

Isotope	Mass Number	# of Neutrons	# of Electrons	# of Protons
		142		91
^{96}Zr				
	69		31	
^{205}Tl				
francium-223				

3. Fill in the following chart:

Name	Symbol	Charge	Mass	Function	Location in Atom
proton					
neutron					
electron					

4. How did Democritus's ideas differ from those of Aristotle?

5. What are the four main ideas of Dalton's Atomic Theory?

(1) _____

(2) _____

(3) _____

(4) _____

6. What is an isotope? _____

7. (a) What is radioactivity? _____

(b) When is an atom radioactive? _____

8. Draw a square from the periodic table. Label the four parts.

9. Write out the name of each of the following elements. Spelling counts!

Rb _____ As _____

Ca _____ F _____

Br _____ Ge _____

Na _____ V _____

Sr _____ Y _____

Ga _____ Mn _____

K _____ Be _____

P _____ Se _____

Kr _____ Zr _____

S _____ Be _____

Li _____ Al _____

N _____ Mg _____

H _____ Si _____