

Topics/concepts/people covered on the quiz:

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|---|-------------------|-------------------------------------|---------------|
| Democritus | Aristotle | Alchemists | Isaac Newton |
| Robert Boyle | Antoine Lavoisier | Joseph Louis Proust | John Dalton |
| atomic theory | isotopes | isotope charts | atomic number |
| mass number | proton | neutron | electron |
| two ways to write an isotope | | names and symbols for elements 1-40 | |
| 4 things listed in each box on the periodic table | | | |

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. (a) What are isotopes? _____

(b) Are copper-65 and zinc-65 isotopes? Explain your answer. _____

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

8. 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 _____

9. What does the word *indivisible* mean? _____