

Answers Science 9 Chemistry Unit Exam Review

- Label each of the following properties as physical or chemical:
 - Physical
 - Physical
 - Chemical
 - Chemical
 - Chemical
- For each of the following state which physical property is being described
 - Boiling Point
 - State of Matter
 - Viscosity
 - Crystal Form
 - Malleable
 - Solubility
 - Hardness
 - Density
- Fill in the blanks in the following sentences with a word or phrase to make the sentence correct.
 - Metals
 - Positively
 - Neutral, nucleus
 - Protons, electrons
- State whether each of the following changes is a physical change or a chemical change.
 - Physical
 - Chemical
 - Chemical
 - Physical
 - Chemical
 - Physical
 - Physical
 - Physical

5. State the type of atoms and the numbers of each type of atoms present in the following

Element	Number of Atoms
Magnesium	1
Bromine	2



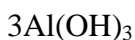
Element	Number of Atoms
Copper	3
Phosphorous	2
Oxygen	8



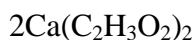
Element	Number of Atoms
Sodium	1
Oxygen	1
Hydrogen	1



Element	Number of Atoms
Calcium	2
Chlorine	4



Element	Number of Atoms
Aluminum	3
Oxygen	9
Hydrogen	9



Element	Number of Atoms
Calcium	2
Carbon	8
Hydrogen	12
Oxygen	8

- Write the formula, name and draw the Bohr diagram to show the compound formed by each of the following combinations of elements:
 - Sodium and sulfur
 - Lithium and fluorine
 - Aluminum and oxygen

7. Complete the blanks in the following table:

Element	Symbol	Atomic #	Mass #	Standard Atomic Notation	# of protons	# of electrons	# of neutrons
Fluorine	F	9	19	F^{19}_9	9	9	10
Calcium	Ca	20	40	Ca^{40}_{20}	20	20	21
Iron	Fe	26	56	Fe^{56}_{26}	26	26	30
Bromine	Br	35	80	Br^{80}_{35}	35	35	45

8. Draw Bohr diagrams for each of the following as elements and ions.

a. Beryllium

b. Oxygen

c. Chlorine

d. Magnesium