

Bauk's CHEMISTRY Ch. 12 Test Review

This is an optional assignment due the day of the test.

Materials: loose leaf paper, pen and/or pencil (You will be given a periodic table.)

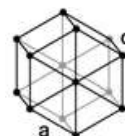
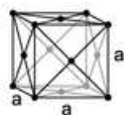
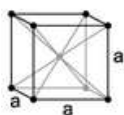
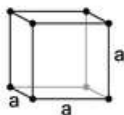
Test date: _____

Test value: 200 points

Test format: multiple-choice; short answers; math problems

TOPICS TO STUDY:

- 1) Any absolute measurement scale—characteristics
- 2) **Absolute zero**—what is it, what happens?
- 3) **Allotropes**—what are they?
- 4) **Amorphous solid**—what is it; characteristics?
- 5) “**atm**”—what is this unit?
- 6) **Boiling; boiling point**—describe the process
- 7) **Buckyballs**—what are they?
- 8) **Condensation**—describe this process
- 9) **Critical point**—what is this?
- 10) **Crystal lattice**—what is it; identify, draw, or give the names of common crystals; for this review, name the following crystal shapes:



- 11) **Equilibrium**—what is it?
- 12) **Evaporation**—describe the process
- 13) **Freezing**—describe the process
- 14) **Gas**—characteristics
- 15) Ionic solids vs. molecular solids—characteristics
- 16) **Kinetic energy (K.E.)**—what is it; how it is measured?
- 17) **Kinetic theory**—summarize the parts
- 18) **Liquid**—characteristics
- 19) **Melting; melting point**—describe the process
- 20) **Pressure**—what is it; how it is measured?
- 21) **SI unit of pressure**—what is it?
- 22) **Solid**—characteristics
- 23) **Sublimation**—describe the process
- 24) **Supercooled liquid**—characteristics and examples
- 25) **Triple point**—what is this?
- 26) **Unit cell**—what is it?
- 27) Math problems - pressure

Given the values for standard pressure, convert from one pressure type to another.

STANDARD ATMOSPHERIC PRESSURE, 5 ways:

1.00 atm 101.3 kPa 14.7 psi 760. mm Hg 760. torr

Example: Convert 0.947 atm to psi.

- 28) Math problems – temperature

Convert from Celsius to Kelvin and from Kelvin to Celsius.

$$\boxed{K = C + 273}$$

Example: Convert 567 K to Celsius.

- 29) **PHASE CHANGES OF WATER diagram** to label (see notes). For this review, sketch and label the diagram. On the test, you will have to label the diagram without a word bank.
- 30) **Phase diagram** to label (see notes). For this review, sketch and label the diagram. On the test, you will have to label the diagram without a word bank.

*** There will be at least one question pertaining to material in past chapter(s) or unit(s). ***