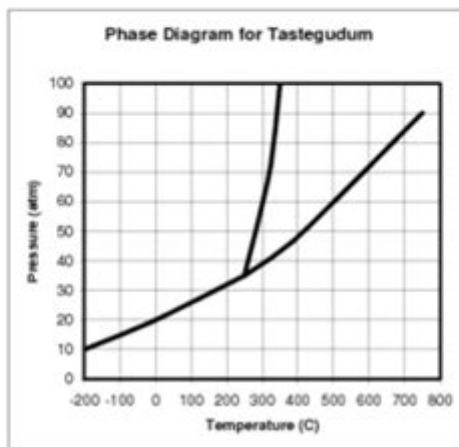


Chemistry Worksheet  
Phase Diagram Basics

Name: \_\_\_\_\_  
Block: \_\_\_\_\_

Answer each question in the space required.

On Crosbia, bolonium (Bg) and manasium (Ma) react together to form the compound tastegudum. For each of the questions on this worksheet, refer to the phase diagram for tastegudum.



- 1) Label the regions of the diagram that correspond to the solid, liquid, and vapor phases. (Write the names of these phases in the appropriate regions directly on the diagram.)
- 2) Draw a small red circle around the point that is the critical point for tastegudum.
- 3) Draw a small blue circle around the point that is the triple point for tastegudum.
- 4) What is the critical pressure,  $T_p$ , of tastegudum?      Ans: \_\_\_\_\_
- 5) What is the critical temperature,  $T_c$ , of tastegudum?      Ans: \_\_\_\_\_
- 6) At what temperature and pressure will all three phases of tastegudum coexist at equilibrium?

T = \_\_\_\_\_      P = \_\_\_\_\_

- 7) What is the boiling point temperature for tastegudum when the external pressure is 60 atmospheres?      Ans: \_\_\_\_\_
- 8) What is the freezing point temperature for tastegudum when the external pressure is 60 atmospheres?      Ans: \_\_\_\_\_

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# Teaching Transparency Worksheet Phase Diagrams Answers

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Teaching Transparency 38 - Phase Diagrams. 1. pressure and temperature. 2. three; solid, liquid, and vapor. 3. Temperature (°C) Pressure (atm) Phase 200 1 vapor (2 1 solid 150 100 liquid (2 0.001 vapor 30 0.8 liquid 0.00 < T < 100.00 1 liquid 100.00 1.00 atm vapor 4. solid and liquid. 5. sublimation and deposition. 6. 73 atm, 31°C. 7. 5.1 atm, 57°C. Name Date Class TEACHING TRANSPARENCY ...

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Teach Yourself Phase Diagrams A.5 HRS 03/11/2009 and Phase Transformations A region of a material which has a homogeneous atomic structure is called a phase. A phase can be identified as a cluster of as few as 10 or so atoms, but it is usually much more. In the three types of solid microstructures listed above, each solid solution or chemical compound would be an identifiable phase. DEF. All ...

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About This Quiz & Worksheet. See what you know about phase diagrams and what they're used for. The practice questions on the quiz will test your understanding of the diagrams themselves, what one ...

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Phase diagrams contain discrete regions corresponding to the solid, liquid, and gas phases. The solid and liquid regions are separated by the melting curve of the substance, and the liquid and gas regions are separated by its vapor pressure curve, which ends at the critical point. Within a given region, only a single phase is stable, but along the lines that separate the regions, two phases ...

### 12.4: Phase Diagrams - Chemistry LibreTexts

Phase Diagrams Revised: 1/27/16 2 a liquid are still closely packed, but are not organized, allowing them to conform to the shape of the container in which held. A gas has no definite shape or volume, but occupies the entire container in which it is confined. Figure 2: Physical states The lines on the phase diagram represent combinations of pressures and temperatures at

### PHASE DIAGRAMS - University of California, Irvine

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Phase Diagram Worksheet Answers Refer to the phase diagram below when answering the questions on this worksheet: 1) Label the following on the phase diagram above: Solid phase, liquid phase, gas phase, triple point, critical point. 2) What is the normal melting point of this substance? ~1000 C 3) What is the normal boiling point of this substance? ~3750 C 4) What is the normal freezing point ...

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Standard phase diagrams show how phases or phase assemblages change as a function of temperature, pressure, phase composition, or combinations of these variables. Some phase diagrams (those for 1-component diagrams) depict relationships involving multiple phases having the same composition (for example, the relationships between the vapor, liquid and solid forms of H<sub>2</sub>O).

### Phase Diagrams (and Pseudosections) - SERC

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### Lunar Phases Lesson Plan | Legends of Learning

Phase diagrams tell us about equilibrium phases as a function of T, P and composition (here, we'll always keep P constant for simplicity). Chapter 9 - 6 Unary Systems Triple point. Chapter 9 - 7 Phase Equilibria Cu FCC 1.8 0.1278 Ni FCC 1.9 0.1246 Crystal

electronegativity (nm) Structure • Both have the same crystal structure (FCC) and have similar electronegativities and atomic radii (W. Hume ...

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