Krug Chemistry – Deep Run Daily Planning Guide

Date of Lesson: Q3 Day 19 – Test Review and Make Up Day

NOTE: Half the students will still be gone for the 10 grade English SOLs. Use this day to review for the Gas Law Test and allow students to make up any missing work.

Topic /Big Questions: (Question Stems & Question Creation Chart)

- **How does heat energy affect the movement of molecules?**
- **How are pressure, temperature, and volume related for ideal gases?**
- **How does heat energy affect the movement of molecules?**
- **How are pressure, temperature, and volume related for ideal gases?**
- **How does the size of a gas molecule affect its velocity?**

State SOL	Unpacking the Standards (Video explanation shown at 3:18)
CH.6	CH.6 The student will investigate and understand that the phases of matter are explained by the Kinetic Molecular Theory. Key ideas include a) pressure and temperature define the phase of a substance; b) properties of ideal gases are described by gas laws; and c) intermolecular forces affect physical properties.
CH. 4	CH.4 The student will investigate and understand that molar relationships compare and predict chemical quantities. Key ideas include a) Avogadro's principle is the basis for molar relationships; and b) stoichiometry mathematically describes quantities in chemical composition and in chemical reactions.

Visible Learning (For the three items with asterisks*, think from a student perspective. Use simple language)

***What am I learning today?** Behavior of Gases, Kinetic Molecular Theory, Boyles Law, Charles Law, Gay Lussac Law, Combined law, Ideal Law, Dalton's Laws, Graham's Law, Temperature, Pressure, Volume, Moles, etc.

***Why is it important?** The movement of atoms and the relationship of energy and the phases is outlined in the Kinetic Molecular Theory. The gas laws describe the relationships of pressure, volume, temperature and number of particles of a gas.

***How will I know I've learned it?** I will understand how energy affects the movement of molecules. I will understand the relationship between temperature, pressure, volume, and moles of an ideal gas at STP.

Differentiation strategies:

Unit 9 Test Review

Cumulative Review Packet

Quizlet Live Games

Accommodations and/or modifications are being met for students with IEP's/504's.

frequent checks for understanding; materials available on Schoology; small group activities

Daily Plan/Sequence of Instruction:

(10th grade students may still be taking the English SOLs.) Use this time to allow students to work on the Unit 9 Test Review, Cumulative Review Packet, or make up other work. Offer assistance as needed.

Play Quizlet Live Review games.

Assessments (List all formative/summative assessments used to check for understanding during this lesson. Summative assessments may occur during a different class period.):

Unit 9 Test Review – (summative)

Cumulative Review Packet – (summative)

After assessing today's lesson are you and your students comfortable moving forward with your next objective?

Yes – students scored 80% or higher on Unit 9 Test Review and Cumulative Review Packet

No, remediation required to proceed – if students score below 65% on the Unit 9 Test Review and/or Cumulative Review Packet, teacher will contact parents/guardians to recommend one-on-one tutoring

Teacher Reflection: