Westside High School Lesson Plan Template

Teacher Name	Mr. Jie	Unit Name	Gas Laws
Course	Pre-AP Chemistry	Dates	Oct 31 – Nov 4

Monday	**Daily Objective:** Students will be able to explain the relationship between changes in states of matter and the attractions among particles. Students will be able to create and interpret models representing phase changes. **Agenda with Approximate Time Limits:** • Unit Test 1.3 Phase Diagrams and Heating Curve **Formative Assessment:** Unit test **Intervention:** **N/A** **Extension:** N/A **Follow-Up/Homework:** N/A
Tuesday	**Daily Objective:** Students will learn about the concept of pressure through a reading on cupping. **Agenda with Approximate Time Limits:** Lesson 1.8A • Read the article independently using metacognitive markers [10 minutes] • Group discussion [20 minutes] • Discussion as a whole class [15 minutes] **Formative Assessment:** N/A **Intervention:** N/A **Extension:** N/A **Follow-Up/Homework:** N/A

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Wednesday / Thursday	**Daily Objective:** Students form small groups and observe changes in pressure by making a hard-boiled egg drop into a glass bottle. Students collect data for the relationship between pressure and volume of ideal gas, then analyze the data by plotting P-V, and P-1/V **Agenda with Approximate Time Limits:** 1. Lesson 1.8B Lab [45 minutes] Lab [20 minutes] Students complete the student handout Lesson 1.8B [15 min] Class discussion about particle diagrams in 1.8B [10 minutes] 2. Lesson 1.9A Virtual Lab [45 minutes] Introduce the properties of gas by showing a news video [5 minutes] Students learn how to use the simulation to collect data for 1.9A [10 minutes] Students complete the student handout Lesson 1.9A [30 min] **Formative Assessment:** Lesson 1.9A **Intervention:** Available tutorials, group work, and Special Ed and 504 accommodations. **Extension:** N/A. **Follow-Up/Homework:** N/A
Friday	**Daily Objective:** Students collect data for the relationship between pressure and the amount of gas particles, then analyze the data by plotting P-n. . **Agenda with Approximate Time Limits:** Discuss the common mistakes found in students' 1.9A plots [10 minutes] Whole class discussion of question 6 in 1.9A [10 minutes] Students work on 1.9B [25 minutes] **Formative Assessment:** Handout 1.9A and 1.9B **Intervention:** available tutorials, Special Ed and 504 accommodations. **Extension:** N/A. **Follow-Up/Homework:** Hand out 1.9C

Westside High School Lesson Plan Template

Teacher Name	Mr. Jie	Unit Name	Ideal Gas Laws
Course	PreAP Chemistry	Dates	Nov 7 – Nov 11

Monday	**No School**
Tuesday	**Daily Objective:** Students collect data for the relationship between Pressure and Temperature, then analyze the data by plotting P-T. Students collect data for the relationship between Volume and Temperature, then analyze the data by plotting V-T. **Agenda with Approximate Time Limits:** Discuss the problems in handout 1.9B and 1.9C. [25 minutes] Introduce and Explain virtual lab in 1.9D **Formative Assessment:** Students complete handouts. **Intervention:** Tutorials as needed **Extension:** N/A **Follow-Up/Homework:** N/A Handout 1.9D.
Wednesday/Thursday	**Daily Objective:** Students will show the mastery of ideal gas laws. **Agenda with Approximate Time Limits:** Review [40] Group practice [50 minutes] **Formative Assessment:** N/A. **Intervention:** available tutorials, Special Ed and 504 accommodations **Extension:** N/A.

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	Follow-Up/Homework:
Friday	**Daily Objective:** Students will show the mastery of ideal gas laws. **Agenda with Approximate Time Limits:** Quiz [45 minutes] **Formative Assessment:** Students complete quiz **Intervention:** available tutorials, Special Ed and 504 accommodations **Extension:** N/A **Follow-Up/Homework:** N/A