

Chemistry 20: Gases MI Assignment

Name: _____ Partner's Name if it's a drama: _____

INTRODUCTION: An understanding of the relationships in a chemical reaction is an important. For this project, you will use your MI strengths and any interactive medium **except** a plain poster (music, drama, computer programs, writing, building and drawing) to accurately demonstrate the Chemistry concepts below to the level described in the notes and class discussions. The project must be created alone unless it is a drama/musical which may be done in groups of two.

LEARNING OUTCOME	Self Mark	Peer Mark
Using your MI strengths in an interactive project, demonstrate your understanding of:		
1) the following gas properties. <ol style="list-style-type: none"> a. Chemical properties of halogens, noble gases and other gases b. Three main physical properties of all gases c. The effect of changing the volume on gases d. The effect of changing the pressure on gases e. The effect of changing the temperature on gasses DUE DATE: 10 marks 10marks
2) the following gas laws. Include one example problem for each <ol style="list-style-type: none"> a. Daltons Law of partial pressure b. Boyles Law c. Charles Law d. Guy Lussacs Law e. Combined Gas Law DUE DATE: 10 marks 10marks
3) the following ideal gas law stoichiometry examples <ol style="list-style-type: none"> a. Explanation of the ideal gas law & an example (2 marks) b. Ideal gas volume, pressure, temperature to mass or particle stoichiometry (3 marks) 5 marks 5 marks
TOTAL 25 marks 25 marks

Creatively illustrate your chemical reactions and stoichiometry. Some examples:

- Use objects (clay) to illustrate the reactants and products
- Use a food recipe to illustrate the reaction
- Write a short story having the reactants & products as characters.
- Do a puppet show or drama illustrating reactions
- Create lyrics for a reaction or stoichiometry song
- Create a reaction stoichiometry game
- Create a cue card matching or/and placement exercise
- Create a worksheet with a variety of questions (MC, NR, Matching, Short Answer)

Score	Scoring Description
25 (5)	Demonstrates a thorough & correct understanding of the concept, idea or skill. The project is well organized and addresses all the major learning outcomes using information provided to the student in the class notes/discussion. The project also addresses other worthwhile learning outcomes . More than one Multiple Intelligence Strengths is used to illustrate understanding of the whole concept, idea or skill.
20 (4)	Demonstrates a thorough & mostly correct understanding of the concept, idea or skill. The project is well organized and addresses a majority of the learning outcomes . One or more Multiple Intelligence Strengths may be used to illustrate understanding of the whole concept, idea or skill.
15 (3)	Demonstrates a somewhat correct understanding of the concept, idea or skill. The project is organized and addresses most of the major learning outcomes . At least one Multiple Intelligence Strength is used to illustrate understanding of part of the concept, idea or skill.
10 (2)	Demonstrates a poor but partly correct understanding of the concept, idea or skill. The project is disorganized and addresses some of the major learning outcomes . Partial use of one Multiple Intelligence Strength is evident to illustrate the understanding of part of the concept, idea or skill
5 (1)	Demonstrates a poor and incorrect understanding of the concept, idea or skill. The project is very disorganized, superficial and addresses few of the major learning outcomes . There is little or no Multiple Intelligence Strength being used.
0	The project does not address any of the major learning outcomes provided. There is little or no evidence of a Multiple Intelligence Strength be used.