

Dougherty Valley HS Chemistry
Chapter #9 – Review Topics and One Pager

*Review Topics and One Two Pager
Instructions on back of this paper. Do
the One Pager on this side of the page.*



Name:

Period:

Seat#:

This is a general list of some of the topics we have covered this chapter. These are suggested study topics, not a definitive list. You can/will be assessed on not just whether you have memorized the material, but also if you can apply the information to a new scenario/situation/context/example. Remember – there is a difference between “knowing” something and truly “understanding” something – memorization vs applying!

- Properties of Gases
- KMT theory assumptions
- Why we use kelvins
- Pressure units and STP values
- Kinetic Energy and Temperature
- How mass affects the speed of gases
- Ideal versus Real Gases
- Diffusion and Effusion
- Basic Gas Law Equations
- Which equations are direct or indirect relationships
- Identify graphs of each gas law equation
- Ideal Gas Law Equation
- Ideal Gas Constant
- Calculating the molar mass by rearranging the Ideal Gas Law
- Calculating density by rearranging the Ideal Gas Law
- Dalton’s Law of Partial Pressures
- Collecting gas over water
- Problems using more than one equation – like Boyles and then Partial Pressure
- Gas Stoichiometry

One Two Pager Instructions

A one-pager is a written and graphic interpretation of what you’ve learned presented on a single sheet of paper. In this case, you will demonstrate that you have successfully practiced strategies commonly used by effective learners. The one-pager will help showcase your thoughts and will provide a reference for later review or further study of the topics.

Guidelines:

- Fill the entire paper - minimize the white space in a meaningful way!
- Must represent all topics from chapter.
- Writing must be in ink, no pencil.
- Use color for illustrations.
- Include all required information (arrange it on page any way you choose).
- Must show higher level THINKING and PROCESSING of the information, not just regurgitating every fact you learned.
- Needs to show a high level of effort, detail, thought, and care. This is not something you scribble out during brunch before class starts!
- Must be clear, easy to read, understandable

Required Information – MUST LABEL SECTIONS AND USE BOXES TO SEPARATE SECTIONS

- Chapter number and title
- Five most important vocabulary words/terms
- Key equations (with names of equations if applicable).
- List of key big concepts/topics (not vocab words)
- Explanations of words or ideas that correspond to the chapter
- A “warning” or “tips” section
- Visual representations of the important aspects of the chapter
- Two higher level questions about the concepts INCLUDING answers. These are not *calculations* to solve.
- Two annotated/explained “representative practice problems” for any topics related to math. Needs to be more than just listing the steps – that isn’t explaining anything! If no math in the chapter then does not need to be included.

5	4	3	2	1	0
All expectations and required elements were followed/included	Many expectations and required elements followed/included	Some expectations and required elements were followed/ included.	Few of the expectations and required elements were followed/ included.	Very few of the expectations and required elements were followed/ included.	
Elements done in an extremely detailed and high level manner.	Elements done in a detailed and high level manner.	Elements lacking detail or not done in a high level manner.	Elements significantly lacking detail or not done in a high level manner.	Elements significantly lacking detail or not done in a high level manner.	
Demonstrates deep and substantial understanding of the material.	Demonstrates a significant understanding of the material.	Demonstrates a moderate understanding of the material.	Demonstrates a superficial understanding of the material.	Does not demonstrate understanding of the material.	
A significant honors level effort and detail shown.	An attempt at an honors level effort and detail shown.	A greater attempt at an honors level effort and detail needed.	A greater attempt at an honors level effort and detail needed.	A greater attempt at an honors level effort and detail needed.	