

**Dougherty Valley HS Chemistry**  
**Chapter #14 – Review Topics and One Pager**

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



**Name:**

**Period:**

**Seat#:**

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# Dougherty Valley HS Chemistry

## Chapter #14 – Review Topics and One Pager

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 acids/bases
  - Three definitions of acids/bases
  - Conjugate acids/bases
  - pH scale
  - pH calculations including pH, pOH, [H<sup>+</sup>], [OH<sup>-</sup>]
- Naming acids/bases
  - Strong vs Weak
  - Self Ionization of Water
  - Kw
  - pH calculations for weak acids/bases (ICE Tables)
  - Neutralization reactions
  - Hydrolyzation reactions
- Identifying if a salt is acidic/basic/neutral
  - Calculating the pH of a salt solution
  - Titration vocabulary and set up
  - Titration calculations – including finding concentrations, molar masses, moles or grams

## One 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.	