

Name (First and Last)

# Chemistry - Solutions

**March 30, 2020 - April 3, 2020**

This has been created to allow you flexibility in completion and hopefully enough choices for you to accomplish tasks that work for you.

## **THE ASSIGNMENT:**

- Put in " **Your name(first and last).**"
- Your goal is to reach 100 points.
  - **THERE IS A POSSIBILITY OF 185 POINTS**
- Each assignment has its own point values. *You can only do each task once, UNLESS IT SAYS OTHER WISE - EX: OFFICE HOURS CAN BE DONE TWICE*
- The assignment types are split up on different pages. You have the choice to **Watch, Read, Research, Explore, or Collaborate.**
- If you have questions, email me at [sonja.crowell@lubbockisd.org](mailto:sonja.crowell@lubbockisd.org) or join my Google Meet office hours (information has been sent out via Google Classroom).
- **Type your answers directly into the box underneath each question. When you are done turn in this entire document in Google Classroom. You MUST hit "SUBMIT" in order for me to grade it.**

## Watch

★ **EdPuzzle: Water and Solution - located in Google Classroom = 10 Points**

- [EdPuzzle: Water and Solutions](#)
- Watch the video and answer the questions as you go.
- Write a Paragraph (3-5 sentences) describing what how water plays an important role in the solutions you use around the house.

★ **EdPuzzle: Crash Course - Solutions - located in Google Classroom = 10 Points**

- [EdPuzzle: Crash Course - Solutions](#)
- Watch the video and answer the questions as you go.
- Write a Paragraph (3-5 sentences) describing what how water plays an important role in the solutions you use around the house.

★ **Hard and Soft Water - located in Google Classroom = 15 Points**

- YOU MUST CLICK THE VIDEO IN GOOGLE CLASSROOM (NO LINK)
- Hard and Soft Water Questions - answer the questions as you watch.

1. What determines whether water is hard or soft? Explain. (Pause 0:35)

2. How do rocks affect the hardness of water? (Pause 1:03)

3. What must water have high concentrations of, to be considered “hard”? (Pause 1:24)

4. How is soft water different from hard water in ion concentrations? (Pause 1:52)

5. What is the white buildup from hard water? What is the process that must occur for it to appear? (Pause 2:22)

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## Read/Write

★ Aqueous Solution - Reading -located in Google Classroom = 20 Points

- YOU MUST CLICK ON THE ARTICLE IN GOOGLE CLASSROOM (no link)
- Summarize the article (At least one good paragraph. 12pt font double spaced.)
- There are guided questions at the end of the article to use in your summary

★ Note - Solution Notes - locaated in Google Classroom = 10 Points

- [Nature of Solution Notes](#)
- Write 2-3 questions you need clarification on this topics

# Research

## ★ Solution Vocabulary = 30 Points

- You may use your notes above or the internet or a dictionary. Make sure it is related to the science definition
- Define the following terms:
  - ☐ aqueous solution
  - ☐ solvent
  - ☐ solute
  - ☐ solution
  - ☐ solubility
  - ☐ soluble
  - ☐ insoluble
  - ☐ polar
  - ☐ polarity
  - ☐ intermolecular forces
  - ☐ hydrogen bonding
  - ☐ electronegative atom
  - ☐ boiling point
  - ☐ melting point
  - ☐ capillary action

## ★ Take a Break = 10 Points

- Put your phone away and go outside for at least 30 min.
- Go on a walk, go sit on a bench, take a notepad to write, do whatever.
- Just take some time to think without distraction and share your thoughts, what you saw, how you are feeling..... below.

## Explore

★ Household Solution = **30 Points**

- Find 5 solutions/items in your house
- Take a picture and upload them on this document
- Give an explanation of each picture using the vocabulary terms. You must use at least 5-10 terms

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## Collaborate

★ Office Hours: Discussion = 10 Points each (may attend up to twice for credit but can attend more as needed)

- See my office hours in Google Classroom or in the letter sent via email
- There is a link in Google Classroom for you to use each time. It is called *GOOGLE MEETS* and has the link attached.
- Give me a brief summary of what you think of the meeting, what you learned, what we discussed, etc. This is so I know that you attended

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# Evaluate

★ Solution Vocabulary Quiz = 10 points

- [Solution Vocabulary Quiz](#)
- there is a 45 second timer for each question

★ CER (Claim, Evidence, Reasoning) = 20 points (MUST BE COMPLETED TO SHOW PASSING)

- See the attachment in Google Classroom
- Answer the following questions here on this document
  - CLAIM - Explain what is happening,

- EVIDENCE - How is that happening?

- REASONING - Why is this happen?