

Ms. Gardner's Courses

Dear students and parents, what follows are plans for work and studying that you can do for the next two weeks while our normal school schedule is disrupted. Obviously, this is not ideal, but I have attempted to give you meaningful assignments that will help us all to keep moving forward in our learning. Your challenge will be to do all of this while on your own. The good news is that I will be available if you have questions, all you have to do is email me at sgardner@rsd.k12.pa.us and I will answer you as quickly as possible. You may also reach out to me via the Remind app for your class – Science 8 (@rsd8th1920) or Principles of Chemistry (@rsdchem)

1. Required materials to complete the work outside of class are listed at the beginning of each course. Students were instructed to take these materials home.
2. Course instruction will be provided via textbook or through handouts which were distributed in class. There will be some online components, but all graded assignments will be through materials that all students have access to. Any additional resources will be sent via school email, if needed.
3. Students without access to a printer can complete the work electronically and save to OneDrive or complete the work in their notebook/separate paper.
4. For Science 8 and Principles of Chemistry courses, students will be given a daily task for the sake of time management and efficiency in completing the assigned work. However, students may combine tasks to complete the work at their own pace, as long as all work is completed before returning to school.

Science 8

Required materials: textbook, binder, notebook, handouts from class

Chapter 2 Lesson 3 – p. 60-65, Lesson 4 p. 68-72

Week 1

March 16 – Complete Part 1 (sentences) in vocab packet

March 17 – Complete Part 2 (illustrations) AND Part 3 (concept map) in vocab packet **March**

18 –

1. Watch this video on cellular exchange: <https://www.youtube.com/watch?v=UgN76naeA1Q>
2. Using the textbook on pages 60-65, “Environmental Exchange Graphic Organizer” was handed out in class. It will also be emailed to you.
 - If you the packet from class or you have the means to print or type directly in the Word doc, complete definition and example for **Diffusion, Facilitated Diffusion, and Osmosis**. If you print the pages, you can fill in an illustration.
 - If you aren't able to print or type in the document, in your Science notebook, write the definition and give an example for **Diffusion, Facilitated Diffusion, and Osmosis**. Include an illustration of each of the three types of movement as well.

March 19 –

Using the textbook on pages 60-65, “Environmental Exchange Graphic Organizer”

- If you the packet from class or you have the means to print or type directly in the Word doc, complete definition and example for **Passive Transport and Active Transport**. If you print the pages, you can fill in an illustration.
- If you aren't able to print or type in the document, in your Science notebook, write the definition and give an example for **Passive Transport and Active Transport**. Include an illustration of each of the three types of movement as well.

March 20 – Review PowerPoint notes on cellular exchange. Here is a link to the presentation, which will be helpful to see the slides in color. But you were also given a copy of the notes in class.

https://rsdk12pa-my.sharepoint.com/:p:/g/personal/sgardner_rsd_k12_pa_us/EUpqOj8H6A9NoeVIKize2PABQbnFGmnKDQf8a1Vdxf8kQ?e=VF3yhm

Week 2

March 23 – Complete lesson outline for Lesson 2: Cells and Energy using textbook on pages 68-72.

March 24 –

1. Watch this video on photosynthesis: <https://www.youtube.com/watch?v=3pD68uxRLkM>
2. Watch this video on cellular respiration: https://www.youtube.com/watch?v=Py4R_Up2uBc
3. Complete accompanying WS called “Cellular Respiration and Photosynthesis Multimedia Activity”

March 25 – Complete Venn diagram to compare/contrast Photosynthesis and Cellular Respiration.

March 26 - Complete the **first six** vocab definitions from Chapter 2, Lessons 3 and 4 in notebook

March 27 – Complete the **remaining five** vocab definitions from Chapter 2, Lessons 3 and 4 in notebook

When you return to school, you should have the following completed:

1. Entire vocab packet finished for Chapter 2, Lessons 3 and 4
2. Notebook definitions (11 total) for Chapter 2, Lessons 3 and 4
3. Organizer with definitions, examples, and illustrate your Science notebook.
4. Lesson outline for Lesson 2: Cells and Energy
5. Multimedia Video WS for photosynthesis and cellular respiration
6. Venn diagram for photosynthesis and cellular respiration

tions printed,
typed and saved to
your OneDrive,
and written in

Principles of Chemistry

Required materials: class folder, pictures from textbook, your stoichiometry and cars poster

Week 1

March 16 – ***Finish stoichiometry and cars posters

March 17 – Go to http://phet.colorado.edu/simulations/sims.php?sim=Gas_Properties and run the simulation. Spend 10 minutes 'playing' with the options on the simulation and observe how different properties affect gases. Then complete the Exploration of Gas Laws worksheet that was sent home.

March 18 – Watch video on properties of gases <https://www.youtube.com/watch?v=eY1R3B-lCac>, take notes while you watch.

March 19 – Work on Chapter 12 vocab (#1-6)

March 20 - Work on Chapter 12 vocab (#7-13)

Week 2

March 23 – p. 422 #2,3,8,9,10, 11 – a picture of the page was sent to your school email **March**

24 –

1. Watch <https://www.youtube.com/watch?v=ZoGtVVu3ymQ> on Boyle's Law 2. Work through Boyle's Law notes that were passed out in class.
3. Complete p. 425 #1, 2

March 25 –

1. Watch <https://www.youtube.com/watch?v=olfFoivRCVE> on Charles' Law
2. Work through Charles' Law notes that were passed out in class.
3. Complete p. 428 #1, 2 (in #2, you must change the temperature from Celsius to Kelvin)

March 26 – Complete p. 425 #4 and p. 428 #3

March 27 – Complete p. 432 #8, 9

When you return to school, you should have the following completed:

1. Chapter 12 vocab definitions
2. PhET worksheet from simulation
3. Notes from Properties of Gases video
4. p. 422 #2, 3, 8, 9, 10, 11 problems
5. p. 425 #1,2,4
6. p. 428 #1,2,3
7. p. 432 #8, 9

Week 1 and 2 -

1. Watch the video on Technology: <https://www.youtube.com/watch?v=BY5QKfjDPTA&t=144s>
2. Take notes during the video.
3. Brainstorm a new piece of technology or a tool that could be useful in society. Your new technology may target any age group. Make a list of ideas and choose one idea to expand and elaborate upon.
4. For your chosen piece of technology, include in your explanation how the technology would benefit humans, how the technology is new and different from technology we currently have, and why you are interested in that particular technology. Your written response should be either typed in a Word doc (or similar format) or written on paper. You will turn in your assignment upon returning to school.