

Ms. Gardner
Science 8
Week of: March 30 – April 3
Content: Cell Cycle - Chapter 3, Lessons 1 and 2 in textbook
Assessments due by Sunday, April 5 at midnight

Office Hours: (via Meet Now on Teams)

Tuesday 11:00-12:00
Wednesday 1:00-2:00
Thursday 9:00-10:00
Friday 11:00-12:00

Learning Goals:

Explain types of diffusion; Differentiate between photosynthesis and cellular respiration

Explain mitosis and the cell cycle in stages; draw pictures of cell cycle stages

Activities/Tasks:

- Complete graded assessment** from book – p.78 #6; p. 79 #14, 17; p. 80 #1,3,4 – write on separate sheet of paper or in your notebook, take a pic and email to me.
- Watch** mitosis video: Brain Pop (File name: Mitosis video.m4v)
- Complete vocab definitions** for Chapter 3, Lessons 1 and 2 in your notebook, starts on p. 85, 12 words. Take a pic and email to me.
- Complete the lesson outline on the Cell Cycle** for Chapter 3, Lesson 3 (File name: lesson outline cell cycle). This will be posted under Files on the Team site. You can print and fill in notes, fill in directly using Word, or open the outline but write the answers one after another in your notebook. To submit to me, you may take a pic and email or upload the file if you type directly in the Word doc.
- Watch and listen** to the review PowerPoint (File name: Cell Cycle Review_narrated) on the cell cycle.
- Watch** (amazing!) home video of me drawing the cell cycle (File name: Cell Cycle.MOV)
- Watch** the mitosis video: <https://www.youtube.com/watch?v=oe5o0vgql6I>

7. Live session: On Thursday, April 2, we will log on to our Team site at 11:00AM. The session will last approximately 20 minutes. During that time, you can request any of the lesson outline answers that are still missing (within reason – I will not go through the entire set of notes), and then you will watch me explain and draw the cell cycle. At the same time, you will draw the cycle in your notes as practice. **This session is not mandatory, nor will participation be graded.** But joining the live session will allow you to ask questions and get help if you are struggling with the content independently.

****The vocab packet is under the Files tab if you want to start on it. The entire packet will be assigned next week.*

References:

1. “Cell Cycle1” – pictures and descriptions of each cell cycle
2. “mitosis cut out pictures” – color copy of cell cycle pictures – this sheet can be printed and filled in using the Cell Cycle1 file
3. Cell Cycle video – yours truly teaching a quick lesson on the cell cycle. You’ll also get to see Bear, George, and the last bessbug!!

Assessments – DUE DATE: Sunday, April 5 at midnight

1. Summative assessment of book work from Chapter 2, Lessons 3 and 4 graded for completion and correctness.
2. Vocab definitions in notebook graded for completion and correctness.
3. Lesson outline graded for completion and (mostly) correctness.

Ms. Gardner

Principles of Chemistry

Week of: March 30 – April 3

Content: Gases (Chapter 12)

Office Hours: (via Meet Now on Teams)

Tuesday 11:00-12:00

Wednesday 1:00-2:00

Thursday 9:00-10:00

Friday 11:00-12:00

Assessments due by Sunday, April 5 at midnight

Learning Goals:

Calculate pressure, temperature, and volume for given gases using various gas laws

Activities/Tasks: (Color-coded tasks are notes and problem sets that should be completed together.)

- Review (watch and listen) pressure and characteristics of gases with PowerPoint (File name: Characteristics of Gases_narrated).
- Watch video of Boyle's Law problem solving (File name: Boyle's Law.MOV) – this video will be me teaching/reviewing Boyle's Law and completing a practice problem.
- Complete #1 and 3 on back of Boyle's Law WS (File name: Boyle's Law 12.4.1)
- Watch video of Charles's Law problem solving (File name: Charles's Law.MOV) – this video will be me teaching/reviewing Charles's Law and completing a practice problem.
- Complete #1 and 2 on back of Charles's Law WS (File name: Charles's Law 12.4.2)
- Watch video of Gay-Lussac's Law and Combined Law problem solving (GL-Combined.MOV) – this video will be me teaching/reviewing both Gay-Lussac's Law and Combined Law and completing a practice problem for each law.
- Complete #2 on the front of the notes and # 2 on back of the notes. (File name: Gay-Lussacs_Combined 12.4.4)
- Live session: On Wednesday, April 1, you will log on to the class Team site at 11:00 AM.** Together we will work through the gas law organizer, which is on the Team Files page. You will write the notes in your notebook. **This session is not mandatory, nor will participation be graded.** But joining the live session will allow you to ask questions and get help if you are struggling with the content independently. Please note – I will review all four gas laws during this session. Even if you haven't learned Gay-Lussac's or Combined laws, it's still useful to hear me explain them and write down the notes.

Assessments – DUE DATE: Sunday, April 5 at midnight

Email me a pic of the following problems after you have solved them:

1. Boyle's Law - #1,3 on back of notes
2. Charles's Law - #1,2 on back of notes
3. GL and Combined Laws - #2 on front and #2 on back of notes

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STEAM – Imagineering

Weeks of: March 30 – April 17 (see activities below for specific dates)

Learning Goals:

Complete Exercises 1-5 on Imagineering website under Lesson 1.

Activities/Tasks: Week of 3/30-4/3

- Go to <https://www.khanacademy.org/humanities/hass-storytelling/Imagineering-in-a-box>. Watch the intro video called “Welcome to Imagineering in a Box” found under Getting Started.
- Watch video called “Intro to creating worlds”.
- Watch video called “Thinking about the story of a land”.
- Come up with a name for your theme park land.**

Activities/Tasks: Week of 4/6-4/9

- Watch video called “Layout”.
- On a piece of paper, draw a rough layout for your theme park. Include at least one ride, one restaurant, and one other attraction of your choice (ride, restaurant, show, game, etc.)**
- Watch video called “Designing buildings for a land”.
- On separate pieces of paper, draw a close up view of the front of the rides and restaurants (or other buildings) that you created for your theme park.**

Activities/Tasks: Week of 4/15-4/17

- Watch video called “Taste and smell”.
- Create menus for your restaurants. If you have more than two restaurants, only create menus for your two favorite restaurants. If you only have one restaurant, you only need to create one menu. You don’t need to include prices, just the food and drink options.**

Work to submit:

Take a picture of the following assignments and email to me:

1. Name of your theme park
2. Rough draft layout
3. Picture of each building you included in your layout (you should have at least 2 separate drawings)
4. Menu(s) that you create for your restaurants