



# WELCOME

## 2023-2024

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**Tuesday, August 15, 2023**

**8:00-9:00am WELCOME AND KEYNOTE ADDRESS**

**Middle School**

**High School**

9:15-11:15 am

Teaching Thinking Skills through 3D Instruction with Cathy Brooks, Science Outreach Clemson University

9:10-10:20 am

Q1 Curriculum Discussion  
Bio 1 | PhySci | Chem | All Others

10:20-11:30pm

Q1 Curriculum Discussion  
Locate PLC members, move to another space together.

11:15-12:45 pm

**Lunch**

11:30-1:00 pm

**Lunch**

12:45-3:30 pm

Q1 Curriculum Discussions by Grade-Level:  
-Content Points of Emphasis  
-Teachers agree upon Labs  
-Assessment Planning  
-ESE Considerations: IEPs, ESOL

1:00-3:00pm

Teaching Thinking Skills through 3D Instruction with Dr.Cathy Brooks, Science Outreach Clemson University

3:00-3:30pm

Debrief with Mrs. Massey

# STEM ACTIVITY

Hand Adaptations - each group will have a different hand configuration

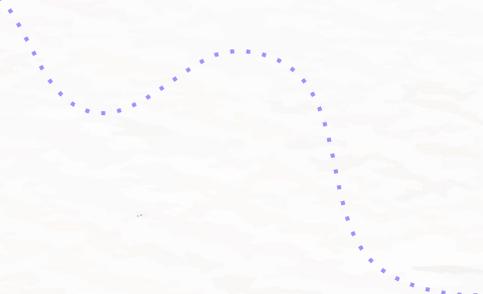


30 seconds per person



Prizes are AWESOME





# What's New for 2023-24

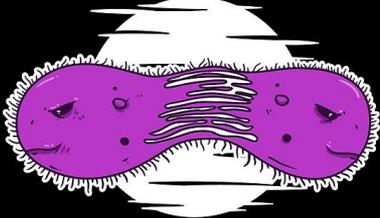
[RHSD Cell Phone Policy](#)  
Link

[RHSD Grading Guidelines](#)  
High School

**Science Standards:** This year, students in ALL grade-levels K-12, will be taught the 2021 SC College and Career Ready Science Standards.

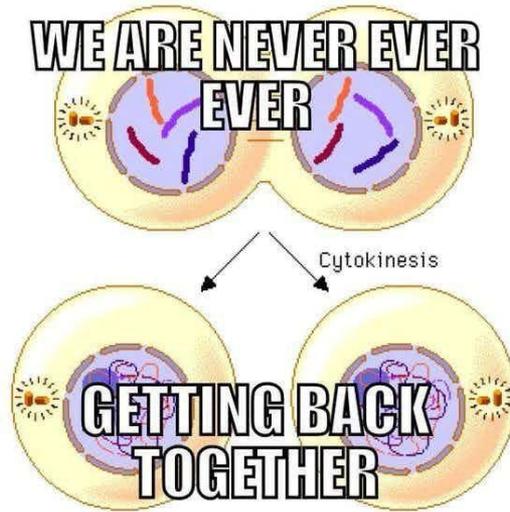


# BIOLOGY



THE ONLY SCIENCE WHERE  
MULTIPLICATION AND DIVISION  
MEAN THE SAME THING.

WE ARE NEVER EVER  
EVER



GETTING BACK  
TOGETHER

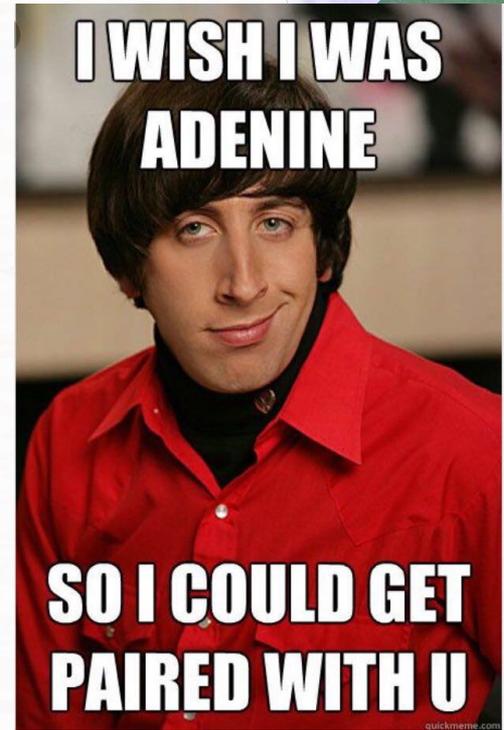
**Why did the biologist  
break up with the  
physicist?**

They had no  
chemistry.



RD

I WISH I WAS  
ADENINE



SO I COULD GET  
PAIRED WITH U

# PLANNING FOR Q1



01

## Classroom Rules/Procedures

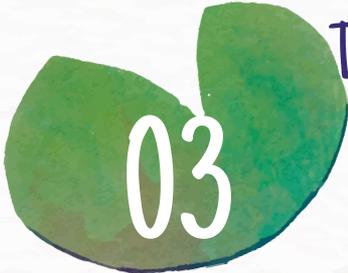
Returning teachers share with new teachers what rules/procedures should be in place.



02

## Notebook Setup

Discuss plans for notebooks/journals. Interactive, virtual, etc.



03

## Teaching the SEPs

While the SEPs and CCCs will be integrated with the content, how can we jumpstart student thinking with some opening activities?



04

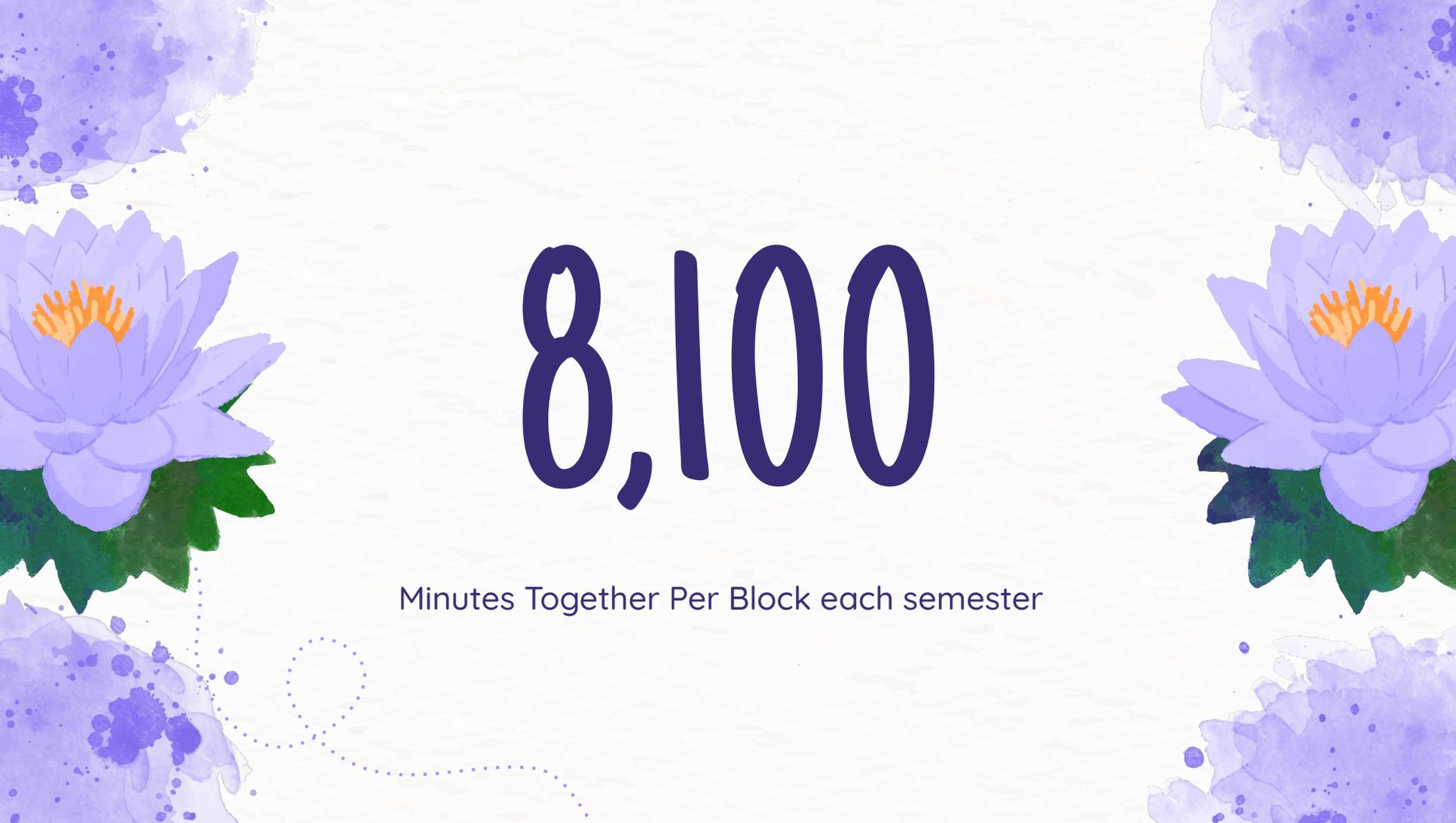
## Teaching the Content

How will we organize and teach Q1 content?  
How will we assess student knowledge?

The background is a watercolor-style illustration. It features several large, vibrant green leaves with dark green outlines, scattered across the page. The background is filled with soft, blended washes of light purple, lavender, and pink. A delicate, dotted line in a light purple color winds its way across the right side of the image, connecting the leaves. The overall aesthetic is soft, artistic, and nature-inspired.

01

# Rules and Procedures



# 8,100

Minutes Together Per Block each semester

# CLASSROOM EXPECTATIONS



Bathroom Policy



Moving Around  
During Class



Group Work



Bell to Bell  
Instruction



Electronic Handling



Nurse Pass  
Office Pass



Entering and Exiting  
the Classroom



02

NOTEBOOK

# INTERACTIVE NOTEBOOK

The goal is for all kids in science to have a hard copy of the work they have completed in class.





TEACHING  
THE SEPs

03

## Science & Engineering Practices

- 1. Ask Questions and Define Problems**  
"I wonder...?" "So, what's the real issue here?"
- 2. Develop and Use Models**  
"Let me show you what I'm thinking!"
- 3. Plan and Carry Out Investigations**  
"I did an experiment to find out..."
- 4. Analyze and Interpret Data**  
"When I study this chart/graph, it tells me that..."
- 5. Use Mathematics and Computational Thinking**  
"I can measure and make calculations to support my experiment."
- 6. Construct Explanations of Phenomena**  
"After studying this occurrence, I think it is caused by..."
- 7. Construct Scientific Arguments**  
"Based on the evidence I would argue that..."
- 8. Obtain, Evaluate, and Communicate Information**  
"After researching I am ready to present my conclusions..."
- 9. Construct Devices or Design Solutions**  
"I can use my science knowledge to solve problems."



# FOCUS THINKING SKILLS



The goal of our professional learning series is to become better equipped with instructional, assessment, and environment building strategies that directly impact student thinking.

*\*You need to conduct 4 labs / quarter that each contain these SEPs.*

The background is a watercolor wash in shades of light blue and lavender. There are several green, leaf-like shapes scattered across the page. A dotted blue line meanders across the left side. Small pink and purple circular accents are also present.

04

# Teaching the Content



## Biology I - CP vs. Honors

Map will differ, but  
Benchmarks will be the  
same.

## CP Biology

Only teaching Biology I Standards

## Honors Biology

Teaching ALL Biology Standards

## Side-by-Side Comparison of RHSD Biology 1 CP and Honors

### Biology 1 CP

Students will be taught the standards listed below. All standards, besides those noted, will be tested on the Bio EOC.

- B-LS1-1
- B-LS1-2 (from A&P, not assessed by EOC)
- B-LS1-3 (from A&P, not assessed by EOC)
- B-LS1-4
- B-LS1-5
- B-LS1-6
- B-LS1-7
- B-LS2-1
- B-LS2-5
- B-LS2-7
- B-LS3-2
- B-LS3-3
- B-LS4-1
- B-LS4-2
- B-LS4-4
- B-LS4-5

### Biology 1 Honors

Students will be taught the standards listed below. All standards, except those noted, will be tested on the Bio EOC.

- B-LS1-1
- B-LS1-2 (from A&P, not assessed by EOC)
- B-LS1-3 (from A&P, not assessed by EOC)
- B-LS1-4
- B-LS1-5
- B-LS1-6
- B-LS1-7
- B-LS2-1
- B-LS2-2 (from Bio 2, not assessed by EOC)
- B-LS2-3 (from Bio 2, not assessed by EOC)
- B-LS2-4 (from Bio 2, not assessed by EOC)
- B-LS2-5
- B-LS2-6 (from Bio 2, not assessed by EOC)
- B-LS2-7
- B-LS2-8 (from Bio 2, not assessed by EOC)
- B-LS3-1 (from Bio 2, not assessed by EOC)
- B-LS3-2
- B-LS3-3
- B-LS4-1
- B-LS4-2
- B-LS4-3 (from Bio 2, not assessed by EOC)
- B-LS4-4
- B-LS4-5
- B-LS4-6 (from Bio 2, not assessed by EOC)

# What Will Biology Look Like This Year?

## Documents

<u>Curriculum Map</u>	CP vs. Honors Biology
<u>SEP Pre- Assessment</u>	Mastery Connect; Question Analysis for Warm Up
<u>SEP Labs</u>	Flip Grid; Share at District PLC PD Days
Weeks 5 & 12 Benchmark	Mastery Connect; PLC Data Discussion
Common Assessments	Canvas; Develop Cumulative Common Assessments
Biology EOC Review	SEP Post - Assessment / Final Cumulative Assessment



Biology I  
Tue August 15th, 2023

**3K1HTU**