



Designing your Classroom for Inclusive Physics with STEP UP

CSAAPT Spring Meeting 2025, Virginia



STEPUPphysics.org



Elissa Dunn-Levy

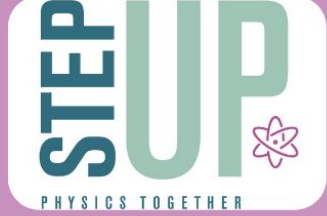
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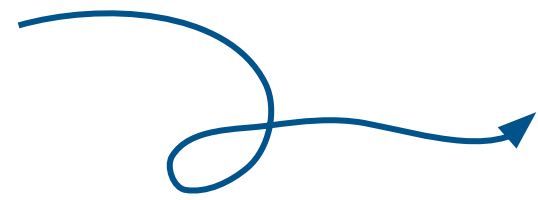


JOIN THE STEP UP
**PROFESSIONAL
LEARNING
COMMUNITY**

STEPUPphysics.com



Applications close April 6th (tomorrow)
Sign up now!





STEP UP Curriculum

Our free Curriculum includes 2 classroom lessons and one pedagogical guide of inclusive strategies for teachers.



Careers in Physics

TEACHER GUIDE

STEP UP



Women in Physics

TEACHER GUIDE

STEP UP



Everyday Actions

STEP UP



Learning Objective:

Teachers will reflect on how physics classrooms are designed to promote community and collaboration, and will use these reflections to shape their own classroom spaces.



Hypothetical

You walk into an empty physics classroom and think, “I don’t know whose room this is, but I bet they’re an awesome physics teacher and now I really want to meet them and see them teach.”

What features of the classroom made you feel this way?



Video with No Audio

These videos are uncut, just as the teachers shared them with us, but they have no accompanying audio



Classroom videos

A few teachers have supplied maps, pictures, and videos of their classrooms.





SPORTS MATH

PHYSICS OF SPORTS

PHYSICS OF SPORTS

Office Depot
Office Depot

PHYSICS

PHYSICS

Micrographs: Fall Into Mathematics

STAND UP FOR WHAT

Electromagnetic Spectroscopy

Becker

WELCOME TO PHYSICS WITH MR. BECKER!

HOME WORK
 1. READ & PARAGRAPHS OF
 (1) CLASSIC PHYSICS
 (2) READING PHYSICS
 (3) PHYSICS BY THE
 DATE: 10/12/24

WEBSITE: PHYSICS-PB.WEBGLY.COM
 BRING YOUR CHROMEBOOK TO EVERY CLASS FULLY CHARGED!

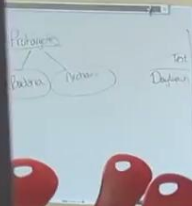
TODAY'S OBJECTIVES

- SI Prefixes
- Metric Prefix worksheet
- Metric Symbol worksheet

LOST AND FOUND ITEMS

Provide the correct physical interpretation of the... / Philip

Physics
Physics
Physics
Physics



- 1. Be your best self at all times, especially when the ball is in your court.
- 2. When you are in the field, be the best you can be.
- 3. No cutting or leaving.
- 4. Keep your work area clean and organized.

228A
SCIENCE
PREP
ROOM

**IN AN EMERGENCY
WHEN YOU HEAR IT, DO IT.**

- Exit
- Fire
- Lockdown
- Shelter
- Evacuation







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presentaciones

RESEARCH TEACHERS CONFERENCE
REGENERATION

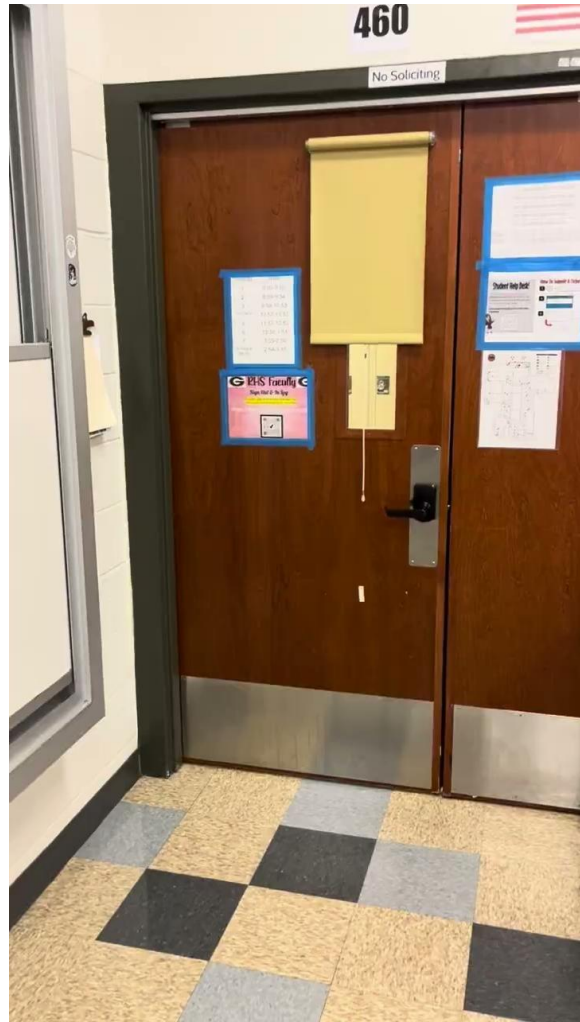
Modeling in
NGSS

Cell Energy

MODELING CELLULAR RESPIRATION
IN YEAST

MODELING CELLULAR
RESPIRATION IN
YEAST

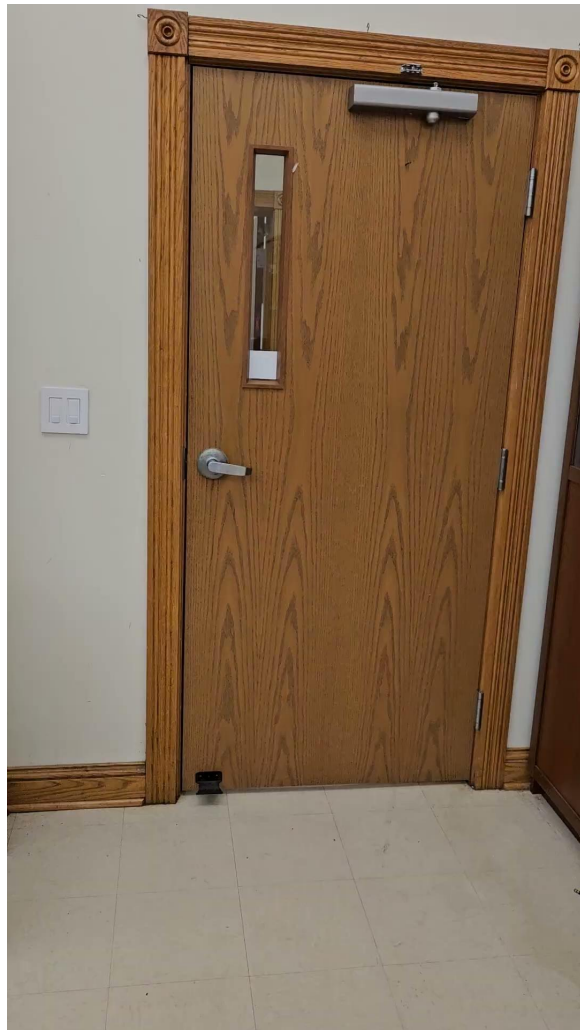
Physics
On the left it says
Put the top





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PHYSICS in MUSIC!

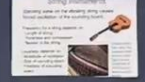
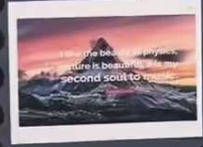
Period



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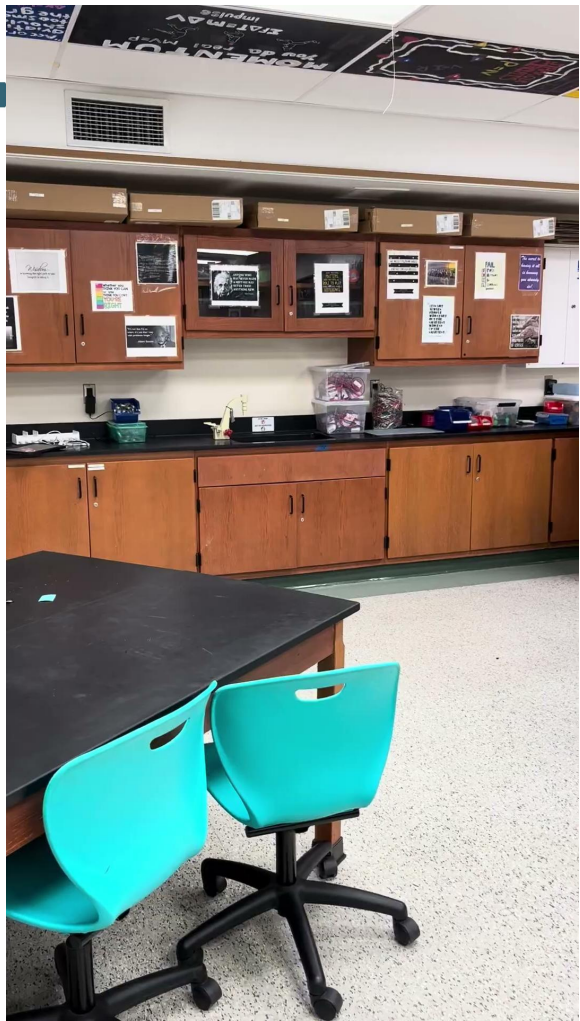
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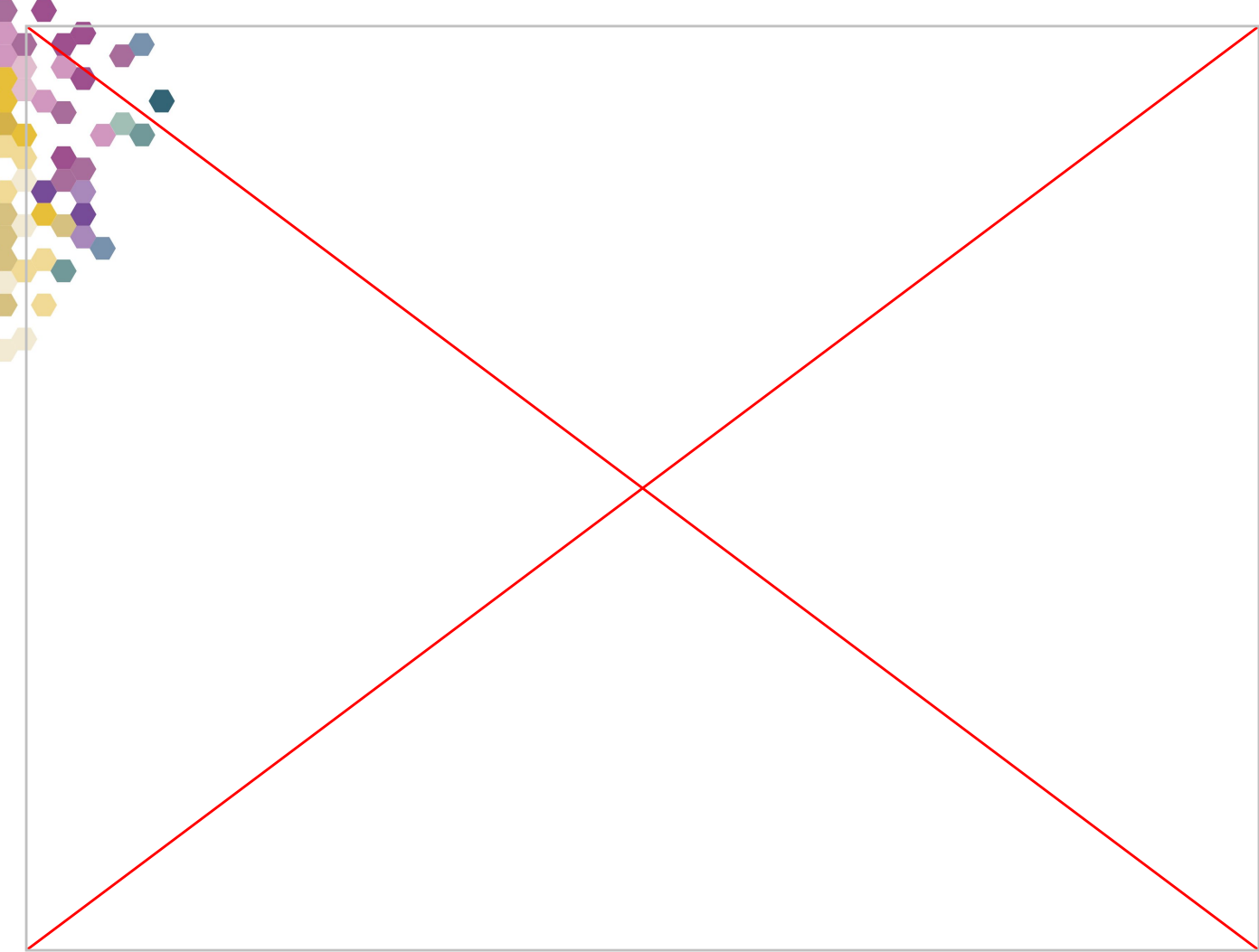
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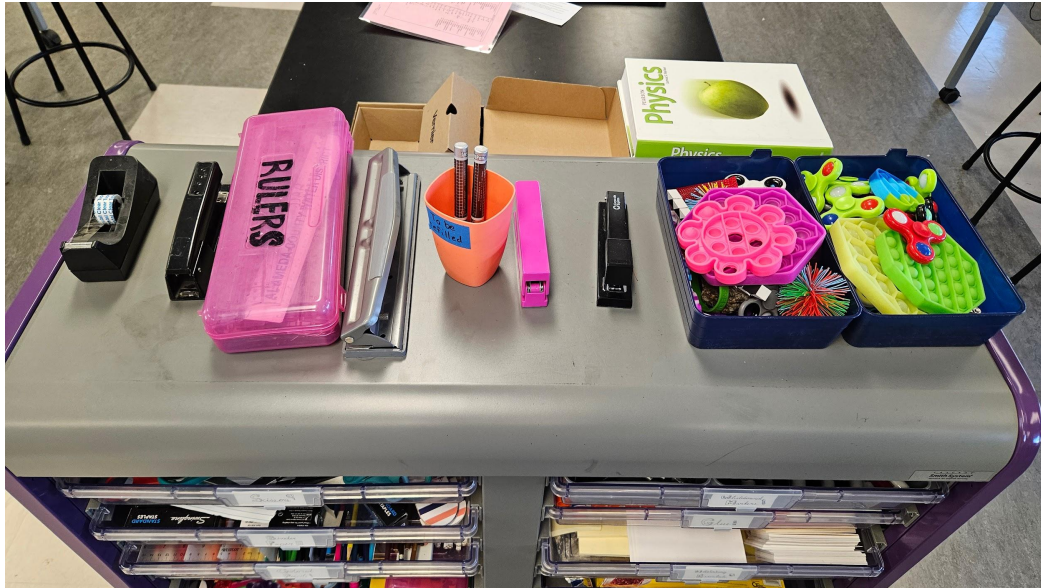
Let's tour
some
physics
classrooms!



In student-centered physics spaces...

- How are students organized physically in the room?
- How do students access materials?
- Which aspects of the space are designed and/or managed by students?
- What goes in the “front” of the room and what goes in the “back”?
- Which fixtures/furniture/supplies are temporary and which are permanent?

- Ease of access can change classroom community & sense of inclusion



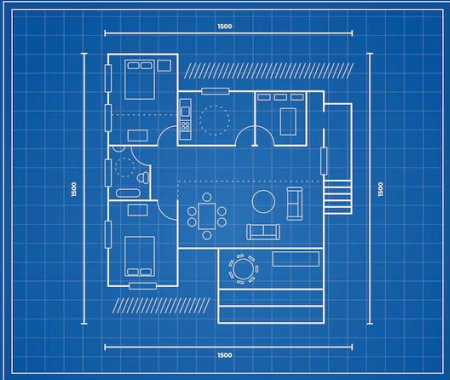
Given what you've seen today:

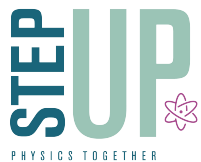
1. What's an **easy, inexpensive** change you can make to increase student community and shared responsibility in your physics classroom?
2. What's a **difficult, expensive** change you'd love to make to your space if you had more freedom?



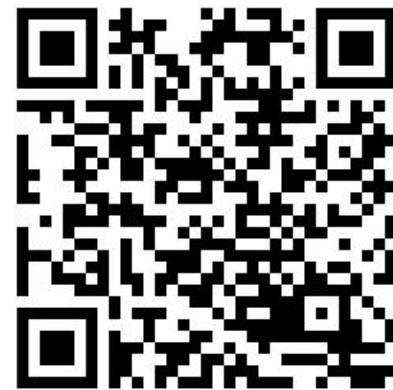
Draw a simple sketch of your classroom, including student seats, their areas of use and highlight the areas where student materials are kept.

Design your ideal layout for students to access those materials and use that space.





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