

# Honors Physics

## COURSE SYLLABUS | 2024 - 2025

### MESSAGE FROM MR. NAVARRETE



Welcome Scientists to your Physics class! Physics is my passion and the only thing I love more than physics is teaching others about its marvels. I am very excited to have you in my classroom as we embark on this journey called Physics. We are all going to work, learn, and grow together. I hope that you are equally as excited to learn about Physics as I am to teach it. I cannot wait to see all of you to transform into young scientists!

### CONTACT INFORMATION

If you have any questions, about anything, contact me at :

c.navarrete@lausd.net

323-227-4400



#### Conferences

If you, or a parent, would like to setup a conference, you can come in during my conference period. Please contact myself or the school to make sure I am available before your visit

### CLASS MATERIALS

To be successful in this class, you will need the following items everyday:

1. Physics Binder
2. Pencils/Pens
3. Colored Pencils
4. Ruler
5. Scientific Calculator



If you are unable to obtain any of these items, please reach out to find an alternative solution

### CLASSROOM EXPECTATIONS

I will never expect anything from you, which you cannot equally expect from myself. I promise I will do my best to uphold myself, you, and your peers to these expectations to help all of us be safe in the classroom and ensure learning is maximized:

1. Arrive to class on time
2. Come to class ready to learn with an open mind
3. Respect the speaker
4. Trust yourself to make mistakes
5. Take care of yourself before entering the class

Most importantly, I expect every to behave in a responsible and courteous manner to both your peers and their belongings, as well as the classroom and anyone who enters through the classroom doors.

# What We Will Accomplish

Throughout the year, we will have 10 unique learning targets we will work towards achieving, all of which are listed below:

## Learning Targets

- 1 HS-PS2-1: I can analyze data to support the claim that Newton's second law of motion describes the mathematical relationship among the net force on a macroscopic object, its mass, and its acceleration
- 2 HS-PS2-2: I can use mathematical representations to support the claim that the total momentum of a system of objects is conserved when there is no net force on the system
- 3 HS-PS2-3: I can apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the force on a macroscopic object during a collision
- 4 HS-PS2-4: I can use mathematical representations of Newton's Law of Gravitation and Coulomb's Law to describe and predict the gravitational and electrostatic forces between objects.
- 5 HS-PS2-5: I can plan and conduct an investigation to provide evidence that an electric current can produce a magnetic field and that a changing magnetic field can produce an electric current.
- 6 HS-PS3-2: I can develop and use models to illustrate that energy at the macroscopic scale can be accounted for as either motions of particles or energy stored in fields.
- 7 HS-PS3-3: I can design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy
- 8 HS-PS3-5: I can develop and use a model of two objects interacting through electric or magnetic fields to illustrate the forces between objects and the changes in energy of the objects due to the interaction.
- 9 HS-PS4-1: I can Use mathematical representations to support a claim regarding relationships among the frequency, wavelength, and speed of waves traveling in various media
- 10 HS-PS4-3: I can evaluate the claims, evidence, and reasoning behind the idea that electromagnetic radiation can be described either by a wave model or a particle model, and that for some situations one model is more useful than the other

# $\Delta U + \text{Work} = \text{Grade}$

## How will I know I met the learning targets?

Your class grade will follow the **Mastery Grading** guidelines

### Mastery Grading means:

1. I will measure your level of mastery of each learning target.
2. You will be given feedback to help improve your performance
3. Rubrics/checklists/scoring guides aligned with the learning targets will be used to inform you on what you have mastered and what to improve
4. Grades reflect how well you understand each target

## MASTERY GRADING RUBRIC

Mastery 4	I can apply my understanding of learning target to new situations
Proficient 3	I can apply my understanding of learning target on my own
Approaching 2	I can apply my understanding of learning target with help of a peer or teacher
Beginning 1	I can apply my understanding of the learning target with substantial scaffolding

Your grade will not be based on how much work you do, but how well you do the work.

## How does that translate into a letter grade?

You will have various assessments for each learning target, each of varying worth, to exhibit your mastery and growth. Your final grade will be decided using the rubric below

*Work Habits and Cooperation marks will be based on assignment punctuality and participation, respectively*

Report Card Grade	Descriptor	Example
A	I have earned at least a 4 in 80% of the learning targets and earned nothing lower than a 3 in other learning targets	④④④④ → A
		④④④③ → A
B	I have earned at least a 3 in 80% of the learning targets and earned nothing lower than a 2 in other learning targets	③③③③ → B
		③③③② → B
C	I have earned at least a 2 in 80% of the learning targets and earned nothing lower than a 2 in other learning targets	④②②② → C
		③③②② → C
D	I have earned at least a 2 in all the learning targets.	②②②② → D
		④③②② → D
F	I have earned at least a 1 in all the learning targets	①①①① → F
		②②①① → F

# Additional Info

## ORGANIZATION

Our class schedule is updated every week through the class website, [navarretescience.com](http://navarretescience.com). There you will find the work and in class assignments we will be doing each week.

You will need a separate binder, only to be used for this class. It should have 5 dividers with the following headings:

1. Lecture Outlines
2. Handouts
3. Homework
4. Labs
5. Tests

Use a separate "Completed Homework" folder to store assignments ready to be turned in

## ACADEMIC DISHONESTY

If you are suspected to be cheating, you will receive a zero on that assignment, and a meeting with the principal will take place. Cheating includes but is not limited to:

1. Copying someone's work
2. Using notes on a closed exam
3. Looking at someone else's exam
4. Looking at your phone during an exam

## ABSENCES

If you are absent, all the classroom materials and notes will be posted on the class website. You will be expected to have reviewed the material and attempt the work at home. If you have trouble understanding the material, tutoring before and after school is available

## LATE ASSIGNMENTS

Assignments will be graded and provide feedback on the assignment by our next meeting time. In order to keep this timeline, unless contacted beforehand, **late work will not be accepted**. However, you are still responsible for learning the material and completing the work.

## Student Agreement

I have read and discussed with my child the syllabus for Physics. I understand the requirements of the course and am committed to its terms. I will contact the instructor when questions arise or to request updates on my child's academic progress

**Student**  
Name (print): \_\_\_\_\_

Signature: \_\_\_\_\_

Email : \_\_\_\_\_

**Parent/Guardian**  
Name (print): \_\_\_\_\_

Signature: \_\_\_\_\_

Email/Phone #: \_\_\_\_\_