

Honors Designation

Beginning with the first unit, students who desire a more rigorous course or have an interest in pursuing a career in Science, Technology, or Engineering will have the option to work towards an Honors designation. Students will need to be self-motivated to complete the curriculum, as it has numerous Engineering and Design projects that are designed to enhance the STEM Physics curriculum.

Honors Unit Requirements (must complete 1 in each unit)	Honors Choice Requirement (must earn 10 points by the end of each trimester)
Unit 1 - Choose one of: 1) Coins Quadratic 2) Patterns in Nature	1. Watch a TEDed video & write a one paragraph summary of the content (1 points each, cannot choose more than 2 videos per trimester) 2. Interview a STEM professional and write a one page summary of the interview (2 points, limit 2 interviews per trimester) 3. Hour of Code (1 point per hour completed, up to 2 hours per trimester) 4. Educational Game - Must be Pre-Approved (i.e. physicsgames.net) (1point, up to one hour per trimester) 5. Build an interesting scientific instrument (varies) 6. Goldendale Observatory Visit (4, one per semester)
Unit 2 - Choose one of: 1) Roller Coaster Inquiry 2) Galaxy Inquiry	a. Open Friday-Sunday, Solar program is 2-4pm and Evening Star Program is 7-10pm (website) b. Provide a photograph of yourself at the event and a one-paragraph reflection.
Unit 3 - Choose one of: 1) Potential Energy Project 2) A more exciting bungee jump	7. Stop motion video explaining a physics concept - must be pre-approved by your teacher before you begin (3 points, up to 1 per trimester) 8. Paper slide video explaining a physics concept - must be pre-approved by your teacher before you begin (3 points, up to 1 per trimester) 9. Participate in the STEM fair (5 points) 10. Be a judge at an elementary science festival (2 points) 11. If you have an idea or a project that you would like to complete that may be eligible for honors credit, talk to your teacher individually. (must be proposed 1 month before the end of the trimester)
Unit 4 - Choose one of: 1) Newton's 3rd Law Article 2) Send a Rocket to the Moon	12. Complete data collection and a lab write-up for a research extension question. (2 points, one per trimester) 13. Become an active member of STEM club (5 points each trimester) 14. Become a Science Ambassador through the OHSU Primate Center. Mentors meet every Wednesday through the year. (10 points for both semesters)
Unit 5 - Choose one of: 1) Making Waves 2) Build & Investigate a Guitar 3) Tonga's Blackout	15. Samsung Solve For Tomorrow Contest (initial application due early November) a. Initial project proposal (2 points) b. State Finalists submit activity plan (6 points) c. State Winners submit project video (10 points)
Unit 6 - Choose one of: 1) Designing a Renewable Future 2) Electric Universe Story	

2022-2023 Due Dates:

The decision to participate in the honors designation is based on the completion of the first project by the due date below. **If you miss the first due date, you will not be permitted to obtain the honors designation.** You do have the option to get the honors designation for Physics B if you do not obtain it for Physics A.

Honors Unit Requirements	Trimester 1	Trimester 2	Trimester 3
Unit 1 - Choose one of: 1) Coins Quadratic 2) Patterns in Nature	9/21/22	1/10/23	
Unit 2 - Choose one of: 1) Roller Coaster Inquiry 2) Galaxy Inquiry	10/19/22	2/7/23	
Unit 3 - Choose one of: 1) Potential Energy Project 2) A more exciting bungee jump	11/16/22	3/7/23	

Physics B

Honors Unit Requirements	Trimester 1	Trimester 2	Trimester 3
Unit 4 - Choose one of: 1) Newton's 3rd Law Article 2) Send a Rocket to the Moon		1/10/23 Mrs. Barker's Class it's due 1/17/23	4/12/23
Unit 5 - Choose one of: 1) Making Waves 2) Build & Investigate a Guitar		2/7/23	5/03/23
Unit 6 - Choose one of: 1) Designing a Renewable Future 2) Electric Universe Story 3) Tonga's Blackout		3/7/23	6/7/23