

Physics Adoption Committee

FEBRUARY 26, 2025

Attendees:

Representatives from 3 comprehensive high schools, a special education teacher, an MLL facilitator, district curriculum developer as the team facilitator

Agenda

- ▶ Get to know each other
- ▶ Explore the Next Generation Science Standards
- ▶ Review process and timeline
- ▶ Next steps and Check-out



Get to Know Each Other

- ▶ Please share
 - ▶ Your Name
 - ▶ Your school/role
 - ▶ Why you chose to be on this committee

Team Norms

- ▶ Keep an open mind
- ▶ Time for technology breaks
- ▶ Be honest
- ▶ Assume positive intentions
- ▶ Listen for understanding
- ▶ Ask questions

Consensus Process

- ▶ Thumbs Up: I think it's a good decision and will advocate for it.
- ▶ Thumbs Sideways: I am comfortable with the proposal but might want to discuss some minor issues.
- ▶ Thumbs Down: I still need to discuss certain issues and suggest changes that should be made.

At the end of this process, we're not looking to vote, we are looking to come to consensus around an instructional material, so we will move forward when all thumbs are up and to the side.

Bellevue School District Physics Courses

- ▶ Physics is the third content area in the traditional biology, chemistry, physics series.
- ▶ The general Physics course is one of several physics course options:
 - ▶ **General physics – conceptual physics, geared towards access to all and aligned to NGSS**
 - ▶ AP Physics 1 – aligned to Advanced Placement standards and can be taken without general physics as a prerequisite. Represents the first semester of a year-long algebra-based, college level physics. Alg 2 concurrent or pre-requisite
 - ▶ AP Physics 2 - aligned to Advanced Placement standards and has AP Physics 1 as a prerequisite. Represents the second semester of a year long algebra-based, college level physics sequence.
 - ▶ AP Physics C (Mechanics) - aligned to Advanced Placement standards and can be taken without general physics as a prerequisite. Represents the first semester of a year-long calculus-based, college level physics. Calculus concurrent or pre-requisite

Why new materials now?

- ▶ Current materials are loosely aligned to Washington State 2003 Standards
- ▶ Adopted text in 2000
- ▶ Developed materials from 2005-2010
- ▶ Next Generation Science Standards are WA state's standards – adopted in 2013
- ▶ WCAS is an NGSS assessment – Spring 2018
- ▶ 11th grade comprehensive science assessment

Our materials are old and have not been revisited in many years.

Important Convergence



The Framework for K-12 Science Education (2011) provided the guidance for the development of the science standards. The Next Generation Science Standards are the product of a team of 26 partner states to embody the Framework in performance expectations, Washington State adopted the NGSS as our state standards in 2013. We were the 8th state to do so.

NextGenTIME: Prescreen Tool

[Prescreen_handouts_v2.0.docx](#)

Multiple organizations came together to provide guidance to school districts interested in adopting instructional materials that are aligned to the NGSS. This pre-screen tool identifies the most innovative shifts for instructional materials aligned to NGSS. It was developed by WestEd, Achieve (who organized the state work in developing the standards), and BSCS. BSCS houses the full NextGenTIME suite of resources: <https://bscs.org/nextgentime/>

Reflect on PreScreen Criteria

Personal Reflection: consider your own science learning...

- ▶ How similar or different is it from the innovations?
- ▶ How will that affect your lens?
- ▶ Take a moment to write a note to yourself on this topic
 - ▶ I learned science _____, in NGSS I need to remember ____

Overview Adoption Process – Committee Tasks

1. Reviews materials using evaluation criteria
2. **Review feedback data** from students, teachers, community
3. Determines **recommendation** to the Instructional Materials Committee (IMC) – consensus process
4. **Implementation** start following School Board approval to begin district-wide use

Prior Activities

- ▶ 2016 - Physics teachers looking at NGSS aligned resources
- ▶ 2021-22 - One teacher tried out PEER Physics, and recommended use. Not on timeline for adoption
- ▶ 2023-24
 - ▶ Timeline arrived for adoption process
 - ▶ Out of sync order of units
 - ▶ Not enough time for full adoption process (pilot two units, etc)
 - ▶ Agreed on order of units for 24-25
 - ▶ Tried out OpenSciEd Physics (field test unit) and did not recommend continuing.
 - ▶ Developer and a teacher previewed Experience Physics (Savvas) – traditional program, light on NGSS
 - ▶ Returned to consider PEER Physics for Fall 2024 Experimental Use

This has been a long process to get to this adoption stage

Timeline *Draft* –

Date	Task
02/26/25	Begin adoption committee orientation, look at NGSS, look at evaluation docs
03/26/25	Use the evaluation docs to review PEER Physics, review data collection plan
04/23/25	Review Teacher and Student Survey Data, review Evaluation data, determine if we have enough evidence to make a recommendation

Instructional Materials Committee (IMC) - May

- ▶ Curriculum developer presents
- ▶ Consists of representatives from community, central office, teachers
- ▶ Role of the committee is to review that the process was followed
- ▶ Supports or doesn't support the recommendation for new materials
- ▶ IMC presents materials to the Board for approval
- ▶ Only after Board approval will implementation commence

The Adoption Committee oversees the pilot and evaluation process, and the IMC evaluates whether the process was followed. The IMC's approval sends the instructional materials on to the School Board for approval of the adoption.

Tools for Evaluation

- ▶ Committee Evaluation Tool
- ▶ Pilot teacher survey
- ▶ Pilot student survey
- ▶ Pilot parent feedback

The data we will be collecting is from these evaluation tools.

Committee Evaluation Categories

- ▶ Standards Alignment
 - ▶ Storyline/Phenomenon/Solve Relevant Problems
 - ▶ Student sense-making
 - ▶ Integration of Three Dimensions
- ▶ Assessment
- ▶ Inclusive Educational Practices
- ▶ Instructional Planning and Support

Next Steps before March 26, 2025



Teachers – register in Cvent

Respond to feedback survey

Self study on NGSS Innovations, ask questions

Provide electronic feedback on Student and Teacher surveys

March 26: evaluate PEER Physics material