

Biology Adoption Committee

OCTOBER 24, 2018

- *Angie DiLoreto, Science Curriculum Developer – Facilitator
- *Cindi Guyer, BHS Science teacher
- *Phil Allen, IHS Science Teacher
- *Beth Gatewood, IHS Science Teacher
- *Lee Holt, IS Science Teacher
- Jeremy Brown, NHS Science Teacher
- *Rose H, student
- Yusra Obaid, OMS Advanced Learning Science Teacher
- *Mike Schiehser, BHS principal
- John Delport, Special Education specialist
- *Sue Kelly, English Language Learner specialist
- Caroline Titan, Equity specialist
- *Jake Duke, STEM Developer
- *Suzanne Reeve, SHS Instructional Technology Curriculum Leader
- *Tom Duenwald, central office director and parent
- *Present

Agenda

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

- ▶ Using the cards when you want to speak
- ▶ Keep an open mind
- ▶ Time for technology breaks
- ▶ Be honest
- ▶ Assume positive intentions
- ▶ Listen for understanding
- ▶ Ask questions

Consensus Process

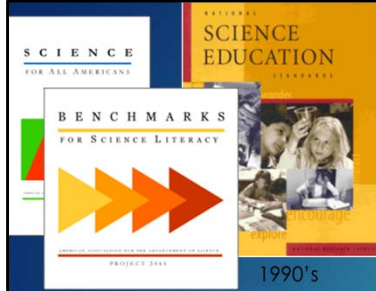


- ▶ Thumbs Up: I think it's a good decision and will advocate for it.
- ▶ Thumbs Sideways: I am comfortable with the proposal but might want to discuss some minor issues.
- ▶ Thumbs Down: I still need to discuss certain issues and suggest changes that should be made.

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
- ▶ NGSS designed unit “Mars Biosphere” – Summer 2016
- ▶ WCAS is an NGSS assessment – Spring 2018
- ▶ 11th grade comprehensive science assessment

Important Convergence

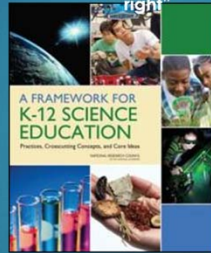


1990's



1999-2009

Step 1
"Getting the
science
right"



Step 2
"States developing
NGSS"



The Framework & Standards were reviewed and refined by over 40,000 teachers, scientists, engineers, educational researchers, youth and other stakeholders in K-12 science ed.

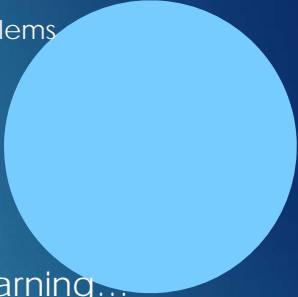

Pre-Meeting Reading

5 Innovations of NGSS:

1. Making sense of phenomena and designing solutions to problems
2. Three dimensional learning
3. Building K-12 Progressions
4. Alignment with English language arts and mathematics
5. All standards, all students

See attachment

Reflect on Innovations



5 Innovations of NGSS:

1. Making sense of phenomena and designing solutions to problems
2. Three dimensional learning
3. Building K-12 Progressions
4. Alignment with English language arts and mathematics
5. All standards, all students

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



1. **Screening** of available materials
 - ▶ Biology Team on release days in 17-18
 - ▶ Two materials Next Gen Storylines and Educurious
2. Develop or adapt **criteria for evaluation**
3. **Pilot** two materials and collect data while using the materials with students (student surveys and teacher surveys)
4. **Adoption committee** uses the criteria for evaluation to take a deeper dive into the materials
5. **Adoption recommendation** to the Instructional Materials Committee (IMC) – including implementation plan
6. **Implementation** following School Board approval to begin district-wide use

Timeline *Draft*

Date	Task
10/24/18	Begin adoption committee orientation, look at NGSS, look at evaluation docs
12/19/18	Use the evaluation docs to review Next Gen Storylines – <i>Why Don't Antibiotics Work Like They Used To?</i>
2/27/19	Use the evaluation docs to review Educurious – <i>Environmental Health</i>
3/20/19	Review Teacher and Student Survey Data, review Evaluation data, determine if we have enough evidence to make a recommendation
4/24/19	(hold the date for additional meeting, if needed to make a recommendation or implementation plan)

The first meeting will be 2 hours in length and the remainder of the meetings will be 3 hours in length.

Instructional Materials Committee (IMC) - May

- ▶ Curriculum developer presents
- ▶ Consists of representatives from community, central office, teachers
- ▶ Role of the committee is to review the process we followed and the data presented
- ▶ 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

Tools for Evaluation



- ▶ Committee Evaluation Tool
- ▶ Pilot teacher surveys (after each instructional material)
- ▶ Pilot student surveys (after each instructional material)
- ▶ Pilot parent feedback

Committee Evaluation Categories



- ▶ Standards Alignment
 - ▶ Storyline/Phenomenon/Solve Relevant Problems
 - ▶ Integration of Three Dimensions
- ▶ Assessment
- ▶ Inclusive Educational Practices
- ▶ Evaluation of Bias Content
- ▶ Instructional Planning and Support

Reflect on Evaluation Tool

- ▶ Read through Category 1 statements individually
- ▶ Discuss with a shoulder partner or trio – clarify, question
- ▶ Make a group T-chart “star” and “wonder”
- ▶ Read through Category 2 statements individually
- ▶ Discuss with a shoulder partner or trio – clarify, question
- ▶ Make a group T-chart “star” and “wonder”
- ▶ ... and so on...

Write your names on the T chart to provide feedback

Any large questions?

Next Steps

Before Dec 19:

- ▶ Teachers – register in Cvent: <http://www.cvent.com/d/wbqw40>
- ▶ Respond to feedback survey
- ▶ Self study on NGSS Innovations, ask questions
- ▶ Provide electronic feedback on Student and Teacher surveys
- ▶ December 19 – meet to evaluate Next Gen Storylines material

Survey:

Additional resources?

December 19 availability for 3 hours

Evaluation tool – yes, no

Other times you're willing or available?

Feedback