IUSD
NGSS Implementation
Education Advisory Committee
August 2016
NGSS Timeline

**2015-16**
- Awareness Phase
  - Public Review of CA Framework Fall 2015

**2016-17**
- Transition Phase
  - CA Science Framework

**2017-18**
- Implementation Phase
  - NGSS State Assessment Pilot
  - NGSS State Assessment Field Test

**2018-19**
- NGSS State Assessment Operational
  - CA NGSS-Aligned Curricula
The Journey
Day 1 (January 6, 2016)

Guiding Questions

What does a rigorous 21st Century STEM Education Look Like?

How will we define STEM literacy for all, STEM expertise for some?

STEM experiences K-12?

Do course progressions ensure all standards for all students?
Day 1 (January 6, 2016)

Key Implementation Principles
By the end of 12th grade all students:

- have an appreciation of the beauty and wonder of science; possess sufficient knowledge of science and engineering to engage in public discussions on related issues
- are careful consumers of scientific and technological information related to their everyday lives
- are able to continue to learn about science outside school
- have skills to enter careers of their choice, including but not limited to careers in science, technology, and engineering
Day 1 (January 6, 2016)

Interest Based Decision Process

Generating the Story of Science education in IUSD
Day 2 (January 13, 2016)
Day 2 January 13, 2016
Generate Interests as Stakeholder Groups

Generate Options to meet the Interests
Student Voice
Day 3 (February 18, 2016)

- Identified the Mutual Interests of the entire committee
- Identified the highly supported Options
- Development Committee Formed
Day 4 Development Committee (March 10, 2016)

College and Career Readiness
Clear Communication for ALL stakeholders
Equity of access and consistency of experiences
Engaging Science Experiences with real world application
Instructional needs of ALL students met appropriately
Manageable and strategic transition to NGSS
Teacher and administrator efficacy, readiness and preparedness
Day 4 Development Committee (March 10, 2016)

Highly Supported Options - Themes
  Transition, Evaluation, and Communication
  Professional Development and Support
  Course Sequence and Instructional Materials
  Instruction and Assessment
Day 5 (April 12, 2016)
Day 6 (April 19, 2016)

Evaluation Begins…
Reviewed sample course progressions
Day 7 (May 11, 2016)

Analyzed Course Designs based on research

https://sites.google.com/a/iusd.org/ngss-resources/
Day 7 Results on Course Designs

High School Models

- H83 D
- H83 MD
- H83 E8EY

Middle School Models

- MSD
- MSI
Build understanding of each instructionally viable course design
Evaluate whether each course design meets all of our mutual interests.
To what extent does each course design meet the mutual interests and provide a rigorous 21st Century STEM Education for all IUSD students?

tinyurl.com/NGSSMay25
Day 8 Implementation Committee (May 25, 2016)
Day 8 Consider the Question…

If 4 high schools choose one course design, and 1 high school chooses a different course design, will that meet each our Mutual Interests?
Day 9 Development Committee (May 31, 2016)

Analyze data from May 25th
Implementation Committee agreements

Final decision on middle school and high school course designs

Begin to plan implementation and next steps
If high school sites select different course designs, what agreements could be put in place to ensure that these mutual interests are met?
It’s Unanimous!

Middle School Integrated Model
Day 9 Development Committee (May 31, 2016)
WHAT'S NEXT?