



# Science Adoption Selection Processes

## Elementary Schools

**Board Presentation**

**April 13, 2022**

# Why are we adopting science materials?

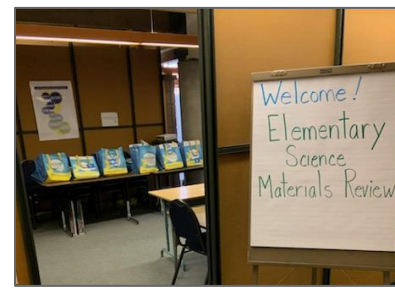
- Students need **equitable access** to NGSS-aligned materials in order to meet the performance expectations outlined in the NGSS
- Next Generation Science Standards (NGSS) curriculum framework adopted by the state of California in Nov. 2016
- MDUSD purchased some Engineering is Elementary kits as supplementary materials
- California Science Test (CAST) is a cumulative measure of student proficiency in the NGSS (taken in 5th grade, 8th grade, and once in high school)

# Steps in the Materials Selection Process

- **Survey sent to publishers on approved CDE list** (K-8) requesting information regarding non-negotiables
- **Staff collected adoption information** from neighboring districts
- **Adoption committee created** - teachers could opt to be on the team, meetings held outside the work day with compensation, mostly on Zoom
- **Internal team reviewed** survey responses and sent invitation to publishers for demonstrations
- **Publishers presented** (virtually) their materials to adoption committee members
- **Materials review** - committee members, teachers, community members evaluated each vendor at Willow Creek Center using a modified version of the CA NGSS Toolkit for Instructional Materials Evaluation (TIME) tool



# Steps in the Materials Selection Process



- Adoption committee discussed (in-person!) materials review responses and **selected two publishers to pilot**
- **Committee members were trained by the publishers** in each program
- **Committee members piloted both programs** evaluating specific areas relating to the TIME tool and the programs' ability to all support students in accessing the NGSS
- **Data collected from committee members and students** via surveys about their experiences
- **Committee members met** to discuss their experiences from both publishers and **voted individually for one program**
- **Staff worked with vendors to finalize quotes**

# Who was involved in the elementary materials selection process?

- Committee participation was voluntary and open to all elementary teachers
- Meetings were held after school, mostly on Zoom, due to COVID

## Teachers

Tracy Bartlett - Strandwood  
Deanne Giffin - Bancroft  
Iñaki Reta Moreno - Ygnacio Elem.  
June Kirske - El Monte  
Leda Tully - Meadow Homes  
Megan Busker - Westwood  
Rachel Proctor - Walnut Acres  
Rhonda Galanter - Valle Verde  
Nicole Garcia - Shore Acres  
Marisa Lujan - Ayers  
Alison Wilkey - Rio Vista  
Jamie Bohannon - Fair Oaks  
Virginia Alexanian - Westwood  
Wendy Townlin - Sun Terrace  
Alicia Sanchez - Hidden Valley  
Joanie Cuneo - TOSA (did not vote)

Cristina Columbram Marques - Ygnacio Valley Elem.  
Erika Austen - Valhalla  
Gerald Hewitt - Sunrise  
Gordon Miller - Shore Acres  
Henar Requejo Martinez - Holbrook  
Julie Kennedy - El Monte  
Kathleen Hoffmann - Strandwood  
Kimberly Chamberlain - El Monte  
Kristen Thompson - Fair Oaks  
Mariteresa Arenson - Walnut Acres  
Bryan McShane - Ayers  
Frith O'Steen - Walnut Acres  
Andrea Ramirez - Sequoia Elem

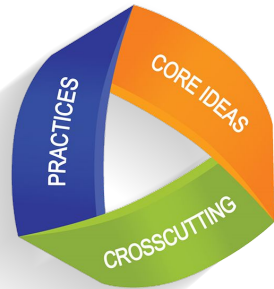
## Facilitators

Mandi Smith - Science TOSA  
Megan Gerdts - Curriculum Specialist



# Criteria for Elementary Selection

- Used a **modified version of the CA NGSS Toolkit for Instructional Materials Evaluation (TIME)** tool provided by the CA Dept. of Education

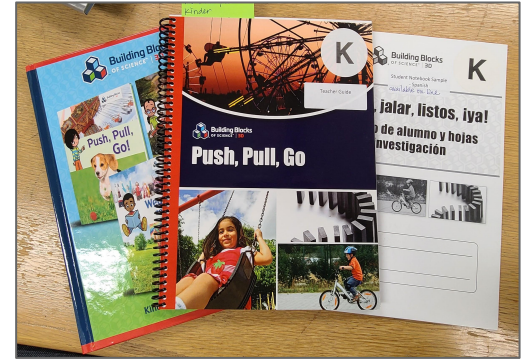


Criteria	What students are doing
<b>Uses Phenomena</b> <ul style="list-style-type: none"> <li>Engage with phenomena as directly as possible to ask and answer questions</li> <li>Experience phenomena directly or through rich multimedia</li> </ul>	<input type="checkbox"/> Investigating (hands-on) <input type="checkbox"/> Writing/Reading <input type="checkbox"/> Discussing <input type="checkbox"/> Watching a video <input type="checkbox"/> Watching the teacher do a demonstration <input type="checkbox"/> Doing a simulation
<b>Student Centered Investigations</b> <ul style="list-style-type: none"> <li>Students make sense of phenomena through hands-on investigations and asking/answering questions</li> <li>Facts/terminology are learned as needed while developing explanations</li> </ul>	<input type="checkbox"/> Investigating (hands-on) <input type="checkbox"/> Writing/Reading <input type="checkbox"/> Discussing <input type="checkbox"/> Watching a video <input type="checkbox"/> Watching the teacher do a demonstration <input type="checkbox"/> Doing a simulation
<b>Provides Support for Diverse Learning Needs</b> Sufficient and Appropriate <ul style="list-style-type: none"> <li>DL and ELL</li> <li>Learning Differences</li> </ul>	

<b>Assessment Evidence</b>	<input type="checkbox"/> Formative <input type="checkbox"/> Summative <input type="checkbox"/> Discussion <input type="checkbox"/> Performance Task <input type="checkbox"/> Multiple Choice <input type="checkbox"/> Other _____
<b>Teacher Usability</b> <ul style="list-style-type: none"> <li>Ease of Use</li> <li>Readability</li> <li>Materials</li> </ul>	<input type="checkbox"/> On-line and print are equivalent <input type="checkbox"/> Online experience is comparable to in class experience. <input type="checkbox"/> Front Matter is helpful provides needed background knowledge <input type="checkbox"/> Links to google classroom easily <input type="checkbox"/> Text is editable /read aloud option <input type="checkbox"/> Tech support for teachers in real time (IRT) <input type="checkbox"/> Spanish and English materials are equivalent
<b>Materials Kits</b>	<input type="checkbox"/> Provided materials kit was adequate to teach the lesson. <input type="checkbox"/> Materials support student learning. <input type="checkbox"/> Materials are necessary to teach lesson; materials are not an unnecessary add on

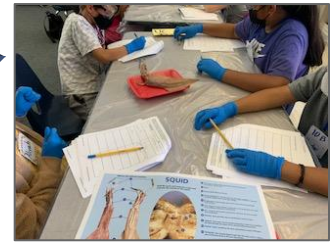
# Rationale for the Elementary Decision

- **Carolina Biological** is the publisher that the committee is recommending we adopt
- Engaging investigations that easily held student interest in a long-lasting way
- NGSS was very accessible for all learners and the curriculum connected together well
- Diverse learners were engaged with the number of hands-on activities
- Teacher guide and online collaboration platform is easy to use and investigation prep videos for teachers were well-done and helpful



# Elementary Program Cost

- 8 year adoption
- Teacher's guides, Basecamp platform access
- Student print & online materials - textbook and consumable notebook
  - ▷ Consumable notebooks refurbished yearly
- Hands-on base materials kits
  - ▷ Vouchers provided for refurbishment of consumables yearly
- Professional Development for both the initial rollout and ongoing needs for the length of the adoption
- Total Estimated Cost for TK-5 science materials for 8 years
  - ▷ \$4,123,969.66 (includes shipping and tax)







# Board Q&A