Science Adoption Selection Process Middle School



Board Presentation

April 27, 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 supplementary materials for some courses in 2018
- 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 materials (in-person), reviewed responses, and selected publishers to pilot
- Committee members were trained by the publishers in each program
- Committee members piloted/reviewed the three programs and evaluated 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 and review data from both publishers and voted individually for one program
- Staff worked with vendors to finalize quotes

Who was involved in the middle school materials selection process?

Committee participation was voluntary and open to all high school teachers

 Meetings were held after school, mostly on Zoom, due to COVID

Teachers

Randy Monroe - Foothill Shauna Lim - Pleasant Hill Middle Laura Wilson - Pleasant Hill Middle Corrie Garner - Foothill Greg Conlin - Riverview Abel Vanegas - Riverview Brian Tibbot - Oak Grove Elisa Mendoza - Seguoia Middle Erika Guderian - Valley View Ian Maslen - El Dorado Jeryl Walker - El Dorado Julia Civitello - Riverview

Karen Christensen - Pine Hollow Katy Cachiotis - El Dorado Monica Ravin - Pleasant Hill Middle Tara Mann - Pine Hollow Middle Devin Jackson - Foothill Rachel Hagen - Pine Hollow

Facilitators

Sarah Bricker - Science TOSA Megan Gerdts - Curriculum Specialist

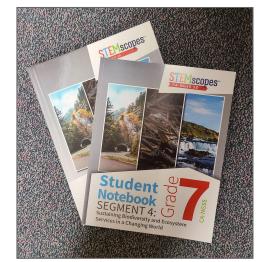
Criteria for Middle School Selection



 Students Interaction with Phenomena Engage with phenomena as directly as possible to ask and answer questions Experience phenomena directly or through rich multimedia Facts/terminology are learned as needed while developing explanations 	 Provides Support for Diverse Learning Needs Sufficient and Appropriate ELL Learning Differences 	- Used a modified version of the TIME tool provided by the CDE
 Students Demonstration of Knowledge Students have ample opportunity to demonstrate their knowledge through various forms of assessment Assessments match the targeted learning goals Elicit evidence of students' use of the 3 dimensions. Makes sense of phenomena and design solutions to problems. 	 Teacher Usability Ease of Use Readability Materials 	

Rationale for the Middle School Decision

- Middle School Science STEMscopes
 - Scopes are organized and structured via 5E method



- Labs are engaging and in-depth, many different activity options
- Online user interface is easy to use for students and teachers
- Teacher's manual was user-friendly and simple to use
- Digital assignments are editable and printable

Middle School Program Costs

- 8 year adoption
- Teacher's guides and access to online curriculum
- Student print & online materials textbook and consumable notebook
 - Consumable notebooks sent yearly for 4 years
 - Spanish materials available as needed
 - Teachers have option to edit and print materials via our Print Shop
- Materials kits and refills as needed
- Professional Development for both the initial rollout and ongoing needs
- Total Estimated Cost for 8 years
 - Approximately \$1,721,000 (not to exceed \$1,725,000)





Board Q&A