

Agenda Item# 9.1

Meeting Date : March 5, 2020

Subject : Approve Grades 6-12 Science Instructional Materials

Adopted

- Information Item Only
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Documents Added:

1. Executive Summary
2. CA NGSS TIME (Toolkit for Instructional Materials Evaluation) Overview
3. Science curriculum materials preview announcement

Estimated Time of Presentation

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I. Overview/History of Department or Program

The Next Generation Science Standards (NGSS) for Science, adopted by the state board of education in 2013, highlight critical skills (practices) and expectations in Science necessary to develop students' understanding of problems facing our world and the essential competencies to solve those problems. The standards emphasize the importance of building content knowledge through balanced engagement in scientific themes or concepts that cut across all areas of science and engineering and each of the eight scientific practices; skills that guide -8 and

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authored and developed across the California Science Project, K12 Alliance and WestEd. The review work began with an analysis of data to develop a district lens which would be considered alongside rubrics evaluating standards' alignment. The prescreen committee convened over several days to evaluate all programs on the CA State Board of Education Adopted Programs list and additional materials as available. The committee recommended 5 programs in each grade level/ content area to move forward for a deeper screen (paper screen) that would happen over the summer. Over the course of five full days per grade level/ content area, the reviewing teachers narrowed the choices from five to two for each grade level span/content area. The following programs were identified for pilot in the fall/winter of 2020:

Grade 6: Green Ninja and Amplify Science (6)

Grade 7-8: Activate Learning/IQWST and Amplify Science (7-8)

Biology w/ Earth Science:

Houghton Mifflin Harcourt Science Dimensions

STEMScopes "The Living Earth"

Chemistry w/ Earth:

Houghton Mifflin Harcourt Science Dimensions

Pearson's Experience Chemistry

Physics w/ Earth:

Houghton Mifflin Harcourt Science Dimensions

STEMScopes "Physics in the Universe"

Instructional Materials Pilots

Selected materials were piloted for eight weeks each across the fall and into the winter of this school year. There were 27 6th grade piloting teachers across the district in 24 elementary schools. There were 24 7-8th piloting teachers across grades in eight middle schools. There were 25 9-12 teachers across the district in eight high schools. Piloting teachers taught, evaluated, debriefed, and analyzed each set of materials across 5 rubrics and our district lens. Student work was collected and analyzed which contributed to a programs' overall score. Feedback was collected from piloting students for the committee to consider.

Instructional Materials Outreach to Stakeholders

To afford a wider range of teachers, school leaders, parents, students, and community members the opportunity to review materials, the district displayed the top two sets of instructional materials selected by the committee at the Serna Center. On-line access to instructional materials were provided through our website and began in November. A physical review of instructional

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home forms. Feedback was collected utilizing an electronic feedback form. Data from the feedback forms were gathered and analyzed by the instructional materials committee as an integral component of the decision making process.

VI. Results:

After an in-depth review of the science Instructional Materials, the Instructional Materials

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