

- I. CALL TO ORDER
- II. PLEDGE OF ALLEGIANCE
- III. APPROVAL OF THE MINUTES
 - III.A. June 16, 2016 - Regular
 - III.B. July 13, 2016 – Special
- IV. APPROVAL OF THE AGENDA
- V. PUBLIC PARTICIPATION - The Board welcomes public participation. Pursuant to our Board Policy, public participation is limited to no more than three (3) minutes per speaker and a total of no more than fifteen (15) minutes. People who wish to speak longer are encouraged to attend any and all related subcommittee meetings where most of the board’s groundwork is done. We value your input, but due to these time limitations, we ask you to be concise and please do not repeat a previous comment. We know you will observe the rules of common courtesy. Thanks. [9320(a) of Board Bylaws]
- VI. BOARD AND ADMINISTRATIVE COMMUNICATIONS
 - VI.A. Chairman’s Report
 - VI.B. Superintendent’s Report
 - VI.C. Committee Reports
 - VI.C.1. Field Fees
 - VI.D. Liaison Reports
 - VI.D.1. Board of Finance
 - VI.D.2. Parks and Recreation Committee
 - VI.D.3. Permanent Building Committee
- VII. INFORMATION ITEMS
 - VII.A. National Assessment of Educational Progress (NAEP)
- VIII. ACTION ITEMS
 - VIII.A. District Enrichment/Theatre Program Coordinator
 - VIII.B. Personnel Report
 - VIII.C. Field Policy Agreement
 - VIII.D. K-8 Science Exploration: Potential Pilot and Program
 - VIII.E. Approval of Grant Applications
 - VIII.E.1. Derx Foundation Grants
 - VIII.E.1.a. Middle School Breakfast Club
 - VIII.E.1.b. Middle School Student News
 - VIII.F. New Textbook Adoption - Suspension of the Rules [referring to New Textbook Adoption]
 - VIII.F.1. AP Chemistry Textbook
- IX. BOARD MEMBER COMMENTS
- X. ADJOURNMENT

K-8 Science Exploration Field Test

Goal

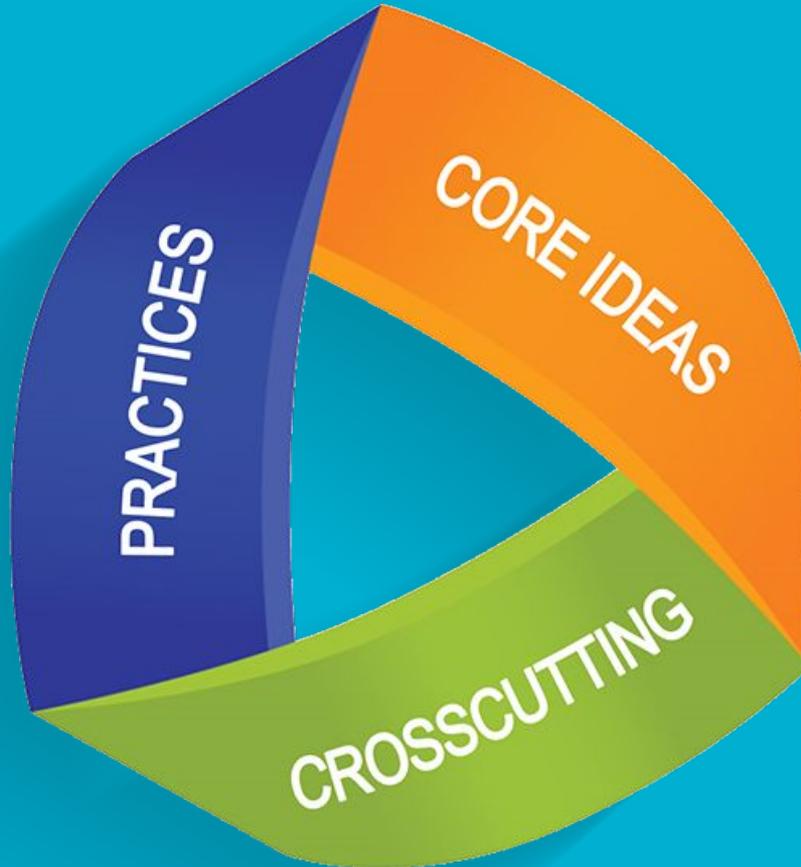
To select a high quality science resource that is aligned NGSS that supports curriculum development and implementation of NGSS shifts of practice

Objectives

1. Form K-8 curriculum committee to evaluate resources
2. Presentations of two major resources to our K-8 Science and Curriculum committee: HMH Science Fusion and Pearson Interactive Science
3. Complete 'Educators Evaluating the Quality of Instructional Products' (EQulP) Rubric for science on resources to measure the alignment and overall quality of lessons and units with respect to the Next Generation Science Standards (NGSS).
4. Develop pilot schedule in the fall to evaluate units according to a framework developed by the K-8 science committee
5. Conduct and analyze science pilot and make recommendations to the curriculum sub-committee concerning next steps.

Next Generation Science Standards: 3D Learning

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Next Generation Science Standards: Practices



Includes:

- Asking Questions
- Solving Problems
- Doing Investigations
- Using Data
- Explaining Results

Next Generation Science Standards: 3D Learning



Four Domains:

- Life Sciences
- Physical Sciences
- Earth and Space Sciences
- Engineering, Technology, and Applications of Science.

Next Generation Science Standards: 3D Learning



CROSSCUTTING

Includes:

- Patterns
- Cause and Effect
- Systems
- Structure and Function

K-8 Committee Members

Susan Hastings, Diana Manning, Melanie Williams	Consolidated School
Jeff Giuliano, Kerry Hannon, Pam Quist, Christina Vrba, Katy Stroh	Meeting House Hill School
Janet Carrubba, Casey Olsen, William Dudas, Dawn Ryen	New Fairfield Middle School
Karen Gruetzner	Assistant Principal, Consolidated School
James Mandracchia	Assistant Principal, Meeting House Hill School
Keegan Finlayson	STEAM Director and Intervention Coordinator
Dr. Jason McKinnon	Chief Academic Officer

Process

1. Program Presentations
2. EQuIP Rubric and Conversation
3. Program Pilots and Field Test
4. Next Steps

1. Program Presentations: HMMH

SCIENCE
FUSION



1. Program Presentations: Pearson



EQuIP Rubric: Alignment

- Both programs aligned to NGSS
- Both programs had substantial instructional supports
- Both programs had significant print and online materials to be used to monitor student progress

Pilot Plan: HMH Science Fusion

Consolidated School

- a. Kindergarten: Mrs. Manning and Ms. Williams (~20 per class)
 - i. *Science Fusion: Unit 1 - Doing Science*
 - ii. *Science Fusion: Unit 2 - Animals*
- b. Grade 1: Mrs. Draxdorf and a second teacher
 - i. *Science Fusion: Unit 1 - How Scientists Work*
 - ii. *Science Fusion: Unit 3 - Animals*
- c. Grade 2: Mrs. Hastings and a second teacher
 - i. *Science Fusion: Unit 1 - Work Like a Scientist*
 - ii. *Science Dimensions Field Study: Unit 2 - Matter*

Pilot Plan: HMH Science Fusion

Meeting House Hill School

- a. Grade 3: Mrs. Quist and Ms. Pascento, ~45 students
 - i. *Science Fusion*: Units 1-2
- b. Grade 4: Mrs. Vrba and Mrs. Hannon, ~80 students
 - i. *Science Fusion*: Unit 1-2
- c. Grade 5: Mrs. Stroh and Mr. Giuliano, ~85 students
 - i. *Science Fusion*: Unit 1-2

Pilot Plan: HMMH Science Fusion

New Fairfield Middle School

- a. Grade 6: Mrs. Ryen and Mr. Dudas, ~160 students
 - i. *Science Fusion: Chemistry Module - Lessons 1-5*
- b. Grade 7: Mrs. Carrubba and Mrs. Olsen, ~200 students
 - i. *Science Dimensions Field Study: Unit 2: The Dynamic Earth*

Field Test: Science Dimensions

- New program being built on the NGSS.
- Fully available 2017-2018.
- Offering field test of select units.

Field Test: Science Dimensions

Purpose:

1. Determine if materials lead to increased student achievement.
2. Determine if materials meet teacher needs.

Field Test: Science Dimensions

Components:

1. Student Pre-Assessment
2. All Instructional Materials (Grades 2 and 7)
3. Student Post-Assessment
4. Teacher Survey

Field Test: Science Dimensions

Student Data Security:

1. Study performed by Educational Research Institute of America (ERIA).
2. No personally identifiable student information will be shared, and students are only identified by a randomly assigned number.
3. ERIA Confidentiality Statement is on file.

Next Steps

1. Reconvene K-8 Science Committee (January).
2. Analyze results and experiences of pilots and field tests.
3. Recommend next steps (e.g. recommend Fusion/Dimensions or pilot Interactive Science).