

INSTRUCTIONAL MATERIALS PUBLISHERS

Bid Item

Course: Science - Grade Four (5020050)
Title: HMH Science Dimensions, Grade 4 , Edition: First
Copyright: 2018
Author: DiSpezio, et al
Grade Level: K - 5

Publisher Questionnaire

AUTHORS & CREDENTIALS: LIST FULL NAME OF AUTHOR(S), WITH MAJOR OR SENIOR AUTHOR LISTED FIRST. BRIEFLY PROVIDE CREDENTIALS FOR EACH AUTHOR.

Michael A. DiSpezio, Global Educator, North Falmouth, Massachusetts Michael DiSpezio has authored many HMH instructional programs for science and mathematics. He has also authored numerous trade books and multimedia programs on various topics and hosted dozens of studio and location broadcasts for various organizations in the United States and worldwide. Most recently, he has been working with educators to provide strategies for implementing the Next Generation Science Standards, particularly the Science and Engineering Practices, Crosscutting Concepts, and the use of Evidence Notebooks. To all his projects, he brings his extensive background in science, his expertise in classroom teaching at the elementary, middle, and high school levels, and his deep experience in producing interactive and engaging instructional materials. Marjorie Frank, Science Writer and Content-Area Reading Specialist, Brooklyn, New York An educator and linguist by training, a writer and poet by nature, Marjorie Frank has authored and designed a generation of instructional materials in all subject areas, including past HMH science programs. Her other credits include authoring science issues of an award-winning children's magazine, writing game-based digital assessments, developing blended learning materials for young children, and serving as instructional designer and co-author of pioneering school-to-work software. In addition, she has served on the adjunct faculty of Hunter College, Manhattan College, and Brooklyn College, teaching courses in science methods, literacy, and writing. For HMH Science Dimensions, she has guided the development of our K-2 strands and our approach to making connections between NGSS and Common Core ELA/literacy standards. Michael R. Heithaus, Ph.D., Dean, College of Arts, Sciences & Education and Professor, Department of Biological Sciences, Florida International University, Miami, Florida Mike Heithaus joined the Florida International University Biology Department in 2003, and he has served as Director of the Marine Sciences Program and Executive Director of the School of Environment, Arts, and Society, which brings together the natural and social sciences and humanities to develop solutions to today's environmental challenges. He now serves as Dean of the College of Arts, Sciences & Education. His research focuses on predator-prey interactions and the ecological importance of large marine species. He helped to guide the development of life science content in HMH Science Dimensions, and he placed special focus on the Science and Engineering Practices and on strategies for teaching challenging content. Cary I Sneider, Ph.D., Associate Research Professor, Portland State University, Portland, Oregon While studying astrophysics at Harvard, Cary Sneider volunteered to teach in an Upward Bound program and discovered his real calling as a science teacher. After teaching middle and high school science in Maine, California, Costa Rica, and Micronesia, he settled for nearly three decades at Lawrence Hall of Science in Berkeley, California, where he developed skills in curriculum development and teacher education. Over his career, Cary directed more than 20 federal, state, and foundation grant projects, and he was a writing team leader for the Next Generation Science Standards. He has been instrumental in ensuring HMH Science Dimensions meets the high expectations of the NGSS and provides an effective three-dimensional learning experience for all students.

STUDENTS: DESCRIBE THE TYPE(S) OF STUDENTS FOR WHICH THIS SUBMISSION IS INTENDED.

HMH Science Dimensions © 2018, for Kindergarten through Grade 5, is a core science curriculum designed for all learners in the general education setting, including those who perform on grade level, below grade level, and above grade level, as well as English Language Learners. The program extends through Grade 12, giving students coherence and continuity in their science curriculum across the elementary, middle, and high school years.

1. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS.

Not Applicable

2. HOW ARE YOUR DIGITAL MATERIALS SEARCHABLE BY FLORIDA STATE STANDARDS (SECTION 1006.33(1)(E), FLORIDA STATUTES)?

HMH Science Dimensions does not align with Florida's Next Generation Sunshine State Standards (NGSSS). Instead, this program reflects the national Next General Science Standards (NGSS). The HMH Science Dimensions program's team of authors and advisors includes key members of the group that drafted the NGSS. Their critical work and feedback ensures that HMH Science Dimensions comprehensively meets the letter and the spirit of these national standards and their Performance Expectations. Full-text standards correlations are provided in each grade level's print and digital Teacher Edition and Student Edition. In the Teacher Editions, each Unit Opener includes an NGSS Across the Grades table, which displays the connections among concepts across elementary, middle, and high school levels. Each Unit Opener also includes a Unit Prerequisite Knowledge note that provides a bulleted list of the concepts that students should understand before starting the unit. At the lesson level, each Lesson Opener

includes a Build on Prior Knowledge note, which lists the prerequisite concepts for the current lesson, as well as suggested verbiage and activities for activating students' prior knowledge. The online teacher resources include the powerful online Trace Tool, which gives teachers a user-friendly view of the Next Generation Science Standards, their correlations to the lessons and resources, and the ways they connect and spiral across the grade levels, from Kindergarten to Grade 12. The full-text standards and Performance Expectations appear, along with the Scientific and Engineering Practices (SEPs), Crosscutting Concepts (CCCs), and Disciplinary Core Ideas (DCIs). A grade-level overview for the scope of the NGSS standards address for the entire school year is also available from the Trace Tool.

3. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Tool is comprised of the items necessary to meet the standards and requirements of the category for which it is designed and submitted. As part of this section, include a description of the educational approach of the submission.

Educational Approach (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

HMH Science Dimensions is the first program from a major provider to be designed for, not just aligned to the Next Generation Science Standards. This dynamic program introduces a comprehensive solution to the market, giving students coherence and continuity in their science curriculum across Kindergarten through Grade 12. The HMH Science Dimensions powerfully develops college and career readiness with 100 percent alignment to the NGSS, embedded Performance Expectations, and a consistent pedagogical framework across the grade levels. The program immerses students in the most contemporary science learning environment and engages them in continuous active participation and exploration. Each lesson is organized by the 5E Instructional Model (Engage, Explore, Explain, Elaborate, and Evaluate) and presented as an activity. This transcends the outdated approach in which a lesson was dotted with a few loosely connected, discrete activities. The program's activity-centric design further aligns to the pedagogical approach espoused by NGSS. The activities display the presence and interaction of the three dimensions of the NGSS. Students are presented with a discrepant phenomenon or problem to solve in Can You Explain It? or Can You Solve It? as the lesson is introduced, and they embark on three-dimensional Hands-On Labs and Explorations that thoroughly engage them in scientific thinking. To further support inquiry and engagement, HMH Science Dimensions employs the established Claims-Evidence-Reasoning (CER) Framework, which develops students' ability to construct explanations of scientific phenomena or discrepant events. Notebooking is a fully integrated practice in HMH Science Dimensions, and Evidence Notebook prompts throughout every lesson in the Student Editions guide the gathering and recording of evidence, information, and reasoning. At the close of each lesson, students reflect upon their findings from the Hands-On Lab, collaborative investigations and discussions, Explorations, Engineer It and Do the Math activities, and the Take It Further task, and they revisit the Can You Explain It? or Can You Solve It? question. There, they evaluate evidence they gathered in their Evidence Notebooks and determine if the claim has been supported or challenged. They summarize the evidence, write about their reasoning, and describe the ways their understanding changed over the course of the lesson. The program takes STEM-based learning and engagement to new heights with its online HTML5-formatted interactive text, vibrant visual representations, Google Expeditions virtual reality field trips, and a dynamic collection of hands-on and virtual learning experiences. Robustly differentiated instruction, high-quality resources, and an interactive approach to teaching and learning make content accessible to students of various academic and language proficiency levels. HMH Science Dimensions is the program that has the power to help Florida's districts meet goals and make a successful transition to the NGSS's new ways of teaching and learning science.

Major Tool - Student Components Describe each of the components, including a format description.

Student Editions • Student Editions: Print editions: At every grade level, the HMH Science Dimensions print Student Edition is well-organized, visually appealing, and easily portable. This core text is a hardcover book with full-color pages. The reader-friendly layout includes manageable chunks of text, vibrant images that directly connect to the lesson content, and helpful headings. • Student Editions: Online Interactive Editions (HTML5): The full-color HMH Science Dimensions Student Editions are available as HTML5-formatted textbooks that invigorate learning. The online interactive textbooks include embedded videos, tech-enhanced inputs for responses, a natural-voice text reader, an interactive table of contents, and numerous embedded lesson-specific materials and multimedia features that can be launched directly from the lesson pages. Tools for note-taking, highlighting, annotating, and bookmarking are built into the online interactive textbooks. The Student Editions for Kindergarten, Grade 1, and Grade 2 include a voice recorder on which they can speak and save responses. Please visit <http://www.hmhco.com/shop/education-curriculum/science/science-dimensions> for more details. • Student Editions: HMH Player App (HTML5): HMH also offers the dynamic HMH Player App, which gives online and offline access to HMH Science Dimensions Student Editions, materials and resources, and interactive components. The award-winning HMH Player App offers collaborative functionality and customization capabilities that transform teaching and learning. Functionality for real-time student-teacher chat, teacher feedback, and classroom collaboration are included. With the HMH Player App, teachers can also upload their own non-HMH open resources into the lessons. Work can be done offline without missing a beat. All student work done in HMH Player while offline syncs to the Dashboards once the device reconnects to the Internet. For more information, please see <https://hnhco.box.com/v/HMHPlayerOverview>. • Student Editions: HMH eTextbooks App (EPUB3): Offline-ready versions of the HMH Science Dimensions Student Editions are available in downloadable EPUB3 format from the HMH eTextbooks App. These digital versions of the print textbooks deliver increased portability and embedded interactive features for use on desktops, laptops, Chromebooks, and Apple and Android tablets. The Student Editions from the HMH eTextbooks App include links to resources at point-of-use and digital note-taking, highlighting, and annotation tools. Additional information about the HMH eTextbooks App is at <http://www.hmhco.com/classroom/classroom-solutions/digital-and-mobile-learning/hmh-etextbooks>. • Student Editions: Downloadable PDFs: Downloadable PDFs of the print versions of the HMH Science Dimensions Student Editions are available from HMH's online platform. They can be downloaded to any compatible device for offline use. • Student Editions: Common Cartridge: HMH Science Dimensions is also available in the IMS Global Common Cartridge Standard. This offering combines the high-quality curriculum with the IMS interoperability standards to deliver digital content that can be accessed in an IMS-conformant Learning Management System (LMS). The content in Common Cartridge consists of digital components such as the online textbooks and resources. It is all packaged for maximum flexibility to allow for individualization that meets the needs of all students. Houghton Mifflin Harcourt's Common Cartridge delivers the quality, consistency, reliability, and flexibility that optimize students' digital learning experience. Information about Common Cartridge is available at <http://www.hmhco.com/classroom/classroom-solutions/digital-and-mobile-learning/common-cartridge>. Test Prep • Florida Statewide

Science Assessment Review and Practice Student Book (PDF and print): This resource prepares students for the content and format of Florida's state test. Full-length practice assessments are also included.

Major Tool - Teacher Components Describe each of the components, including a format description.

Teacher Editions • Teacher Editions: Print editions: At every grade level, the HMH Science Dimensions print Teacher Edition is well-organized, easily portable, and teacher-friendly. This hardcover text provides high-quality instructional support, robust differentiation, strategies and activities for all levels and styles of learners, and structured support for labs. • Teacher Editions: Online Interactive Editions (HTML5): The full-color HMH Science Dimensions Teacher Editions are available as HTML5-formatted textbooks that invigorate teaching. The online interactive textbooks include embedded videos, an interactive table of contents, and numerous embedded lesson-specific materials and multimedia features that can be launched directly from the lesson pages. Tools for note-taking, highlighting, annotating, and bookmarking are built into the online interactive textbooks. Please visit <http://www.hmhco.com/shop/education-curriculum/science/science-dimensions> for more details. • Teacher Editions: HMH Player App (HTML5): HMH also offers the dynamic HMH Player App, which gives online and offline access to HMH Science Dimensions Teacher Editions, Student Editions, materials and resources, lesson planning tools, presentation tools, and interactive components. The award-winning HMH Player App offers collaborative functionality and customization capabilities that transform teaching and learning. Functionality for real-time student-teacher chat, teacher feedback, and classroom collaboration are included. With the HMH Player App, teachers can also upload their own non-HMH open resources into the lessons. Work can be done offline without missing a beat. All teacher and student work done in HMH Player while offline syncs to the Dashboards once the device reconnects to the Internet. For more information, please see <https://hnhco.box.com/v/HMHPlayerOverview>. • Teacher Editions: Downloadable PDFs: Downloadable PDFs of the print versions of the HMH Science Dimensions Teacher Editions are available from HMH's online platform. They can be downloaded to any compatible device for offline use. • Teacher Editions: Common Cartridge: HMH Science Dimensions is also available in the IMS Global Common Cartridge Standard. This offering combines the high-quality curriculum with the IMS interoperability standards to deliver digital content that can be accessed in an IMS-conformant Learning Management System (LMS). The content in Common Cartridge consists of digital components such as the online textbooks and resources. It is all packaged for maximum flexibility to allow for individualization that meets the needs of all students. Houghton Mifflin Harcourt's Common Cartridge delivers the quality, consistency, reliability, and flexibility that optimize students' digital learning experience. Information about Common Cartridge is available at <http://www.hmhco.com/classroom/classroom-solutions/digital-and-mobile-learning/common-cartridge>. Test Prep • Florida Statewide Science Assessment Review and Practice Teacher's Guide (PDF and print): This resource offers professional guidance and answer keys that correspond to the students' resource.

4. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

Handbooks • Handbooks (PDFs): The NGSS Cross-Cutting Concepts Handbook, NGSS Handbook Science and Engineering Practices Handbook, Math Handbook, and English Language Arts Handbook help students sharpen the content-area skills that facilitate successful learning. Science and Engineering Leveled Readers • HMH Science and Engineering Leveled Readers (PDF and print): The HMH Science and Engineering Leveled Readers are informational texts that combine STEM and literacy learning. The selections in the leveled readers add the standards-recommended STEM-based nonfiction to classrooms and capture students' attention with lively illustrations. Pages include visuals and text features that present an organized, reader-friendly layout while enhancing comprehension. With three levels (On Level, Extra Support, and Enrichment), every student can receive the right amount of support and challenge. Corresponding worksheets and Extension activities exercise students' reading comprehension, vocabulary, and writing skills. Google Expeditions • Google Expeditions (VR/HTML and Javascript coding): In partnership with Google, HMH brings you Google Expeditions virtual reality field trips that immerse students in captivating 3D, 360-degree panoramic explorations. With Google Expeditions virtual reality field trips and connected curricular resources, students are taken to various places in the real world through a simple Google Cardboard viewer and a mobile phone. Students actively engage in immersive virtual journeys to locations like Big Cypress National Preserve, Kennedy Space Center, the Florida Everglades, the Saturn V Rocket at NASA, and the Orange Blossom Cannonball Train. Teachers guide students through each inquiry-based virtual reality field trip by using a tablet, the Google Expeditions App, and the HMH Science Dimensions-Google Expeditions Teacher's Guide with HMH Science Dimensions-specific lesson resources. The Google Expeditions App is available for iPhones and Android-powered phones. Science Videos and Simulations • You Solve It (HTML5): You Solve It presents simulation-based learning experiences that include thought-provoking visuals and interactive questions. You Solve It starts off with an overview that provides the context and some basic instructions for using the open-ended simulation. While watching the simulation, students have complete control of the experience. They execute their own choices for gathering evidence and reaching a solution. At any time, students can visit the Support page for background information, tips, and a rubric. • Video-Based Projects (mp4): These engaging projects are specifically designed to involve students in real-world explorations of various engineering, design, and technology challenges. The videos are filmed on-location, and the hosts speak directly to students as co-investigators as they hone their science process skills while applying concepts learned. The Ecology, Biotechnology, and STEM scenarios grab students' attention and motivate them with real-world science and engineering challenges. There are 20 projects, with one or two per module referenced in the planning resources and at point-of-use. Teacher and Student resources are provided for each project to guide the inquiry process. • Embedded videos (mp4): Videos that offer examples of concepts and/or contribute evidence to questions are embedded in the interactive Student Edition. Glossaries and Science Tools • Multi-lingual Glossary (PDF): This downloadable glossary presents key terms and definitions in English, Spanish, Chinese, Vietnamese, Khmer, Laotian, Arabic, Haitian Creole, Russian, and Portuguese. • Interactive Glossary (HTML5): The Interactive Glossary presents vocabulary and definitions along with audio and videos or other visuals. The Interactive Glossary includes terms and definitions in English and Spanish. • Science Tools (HTML5 and PDF): Accessible from the program's online platform and Graphing Tool, Graph Paper, Scientific Calculator, Periodic Table ScienceSaurus • ScienceSaurus (PDF and print): The ScienceSaurus handbooks present clear and concise text with supporting visuals that aid comprehension and help students master key concepts. ScienceSaurus has a friendly, organized format that promotes focus and understanding. Family Resources • Videos for Families (mp4): The Videos for Families offer easy-to-understand background information and explanations of the Next Generation Science Standards and related content.

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

Teacher Editions of Handbooks • Teachers' versions of handbooks (PDFs): The teachers' versions of the NGSS Cross-Cutting Concepts Handbook, NGSS Handbook Science and Engineering Practices Handbook, Math Handbook, and English Language Arts Handbook include professional guidance and answer keys. • Lab and Safety Handbook (PDF): The Lab and Safety Handbook provide meaningful guidance that helps students get the most from their lab experiences in effective and safe ways. Science and Engineering Leveled Readers Teacher's Guides • HMH Science and Engineering Leveled Readers Teacher's Guides (PDF and print): The HMH Science and Engineering Leveled Readers Teacher's Guides include instructional guidance, corresponding worksheets, and Extension activities. Google Expeditions Teacher's Guides • Google Expeditions (VR/HTML and Javascript coding): Teachers guide these virtual reality field trips by using the HMH Science Dimensions-Google Expeditions Teacher's Guide. The ready-made questions and corresponding activities guide students to think analytically and critically about what they have experienced and make connections to concepts presented in the HMH Science Dimensions lessons. Professional Development Videos • Professional Development Videos (HTML5/mp4): The Professional Development Videos help teachers transition to the Next Generation Science Standards with accurate and up-to-date support directly from HMH Science Dimensions authors. The Foundation videos explain the NGSS and the background related to their development. The Foundation videos are useful for educators and families. Engineering videos support teachers as they incorporate the engineering design process into their classrooms. The Challenging Content videos give teachers specific strategies for addressing certain areas of NGSS-based content that tend to be difficult for students. Standards Resources • Trace Tool (HTML5): The online teacher resources include the powerful online Trace Tool, which gives teachers a user-friendly view of the Next Generation Science Standards, their correlations to the lessons and resources, and they ways they connect and spiral across the grade levels. The full-text standards and Performance Expectations appear, along with the DCI, SEP, and CCC categories. A grade-level overview for the scope of the NGSS standards address for the entire school year is also available from the Trace Tool. • Common Core State Standards for ELA and Math Correlations (PDF and print/in texts): This resource shows the alignment of HMH Science Dimensions and the CCSS for English Language Arts and Math. The full-text standards are listed with the page citations in the Student Edition and Teacher Edition and applicable resources. Family Resources • Videos for Families (mp4): The Videos for Families offer easy-to-understand background information and explanations of the Next Generation Science Standards and related content. • Family engagement letters (PDF): Family engagement letters provide an overview of the content, as well as an invitation to videos and other resources. The downloadable digital letters engage students' family members and extend their real-world STEM experiences. Other Downloadable Digital Resources • Downloadable PDFs: Some of the other downloadable digital materials include PDF-formatted versions of the HMH Science Dimensions print Student Editions and Teacher Editions, Unit Project Worksheets, Unit Performance Task Worksheets, English Language Development Strategies sheets, Assessment Guides, and Hands-On Lab Worksheets. Lab Kits • The labs use easily sourced materials, and HMH offers affordable options in Core Kits, Replenishment Kits, and Safety Kits. o Core Equipment Kits include all of the consumable and non-consumable equipment and items needed to complete the Hands-On Labs and other hands-on explorations in the Student Edition. o Replenishment Equipment Kits provide additional consumable materials that may be needed for additional classes or to replace items that have been used. o Safety Kits include important items like goggles, aprons, and gloves. Assessments • Online assessment system (HTML5): HMH Science Dimensions includes an online system that offers assessment options and a test-item bank for lesson, unit, and module levels. Assessments include tech-enhanced items similar to those in computerized high-stakes tests. Teachers can schedule and administer assessments easily from the program's platform. Automatic scoring functionality is available for some items. The assessment system allows teachers to generate various reports at the individual student and class levels. • Assessment Guide (PDF and print): The Assessment Guide includes copymasters and answer keys for the Unit Pretests, Lesson Quizzes, Unit Tests, Performance-Based Assessments, Mid-Year Benchmark Assessment, and End-of-Year Benchmark Assessment.

5. IDENTIFY WHICH INDUSTRY STANDARD PROTOCOLS ARE UTILIZED FOR INTEROPERABILITY?

HMH's educational technology supports the standards set forth by the IMS Global Learning Consortium.

6. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

This program is intended for use throughout one school year, in either a traditional daily schedule or a block schedule.

7. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

Supporting Initial Program Implementation To ensure teachers have the knowledge to begin implementing their new HMH program, professional learning is provided with purchase. We understand that schools and districts need choices regarding delivery options; as a result, we offer a variety of delivery methods for this initial program learning. Clients may choose from courses listed below. Getting Started with Science Dimensions Participants engage in a variety of hands-on experiences to learn about Science Dimensions organization, design, and resources, through direct instruction, guided practice, and cooperative exploration, participants will experience the program's resources both from a student and teacher perspective. The goal is to build deeper understanding and confidence to begin implementing Science Dimensions in their respective learning environments. Learning Outcomes: • Enrich daily instruction by applying knowledge of Science Dimensions program organization and pedagogy • Support differentiation, assessment, and effective whole and small group instruction using HMH program resources and instructional tools • Enhance instructional delivery and student learning using HMH technology Audience: Teachers, Coaches, Administrators Delivery: In-person Time: Full-day, Half-day or Webinar Getting Started with Science Dimensions Train the Trainer As an alternative to Getting Started, leaders and educators can choose to build capacity internally. Our specialized team of consultants helps school and district trainers deliver initial program training at their respective sites. Learning Outcomes: • Enrich daily instruction by applying knowledge of Science Dimensions program organization and pedagogy • Support differentiation, assessment, and effective whole and small group instruction using HMH program resources and instructional tools • Enhance instructional delivery and student learning using HMH technology Audience: Teachers, Coaches, Administrators Delivery: In-person Time: Full-day Getting Started Leadership Webinar Designed specifically for district and school leaders and instructional coaches, the Getting Started

Leadership Webinar provides an overview of the Science Dimensions program organization, lesson design, and support resources. The goal is to build deeper understanding of the program's alignment to standards as well as identify key teacher and student behaviors to observe in their learning environments. Learning Outcomes • Recognize program alignment to national standards • Understand program organization and resources that support differentiation, assessment, and effective whole and small group instruction • Identify teacher and student behaviors that positively impact student achievement when observing Science Dimensions classroom implementation and delivery Audience: Teachers, Coaches, Administrators Delivery: Webinar Time: 1 hour

8. WHAT HARDWARE/EQUIPMENT IS REQUIRED? Briefly list and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid! However, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

Districts that choose to use the program's technology-based textbooks and components can use any of the following hardware/equipment:

Operating systems: Chromebooks Windows 7, 8.1 desktop/tablet, 10 Mac 10.9, 10.10, 10.11 iOS 8 and 9.7"+ screen Android 4.4 and 5.7"+ screen Minimum RAM: 512 MB Hard drive space needed: Core program: less than 1 GB

9. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

See Attached

10. WHAT STATES HAVE ADOPTED THE SUBMISSION? List some of the states in which this submission is currently adopted.

This program is brand new and has not been adopted in other states as of this time.

11. WHAT OPEN EDUCATIONAL RESOURCES RELATED TO THIS BID DO YOU MAKE AVAILABLE(S)? List and describe each of the components, including a format description. (Open Educational Resources (OER) are high-quality, openly licensed, online educational materials that offer an extraordinary opportunity for people everywhere to share, use, and reuse knowledge.)

Open Educational Resources are not included in the HMH Science Dimensions program.

12. ALTHOUGH NOT CALLED FOR IN THE STATE ADOPTION, DO YOU HAVE ADVANCED PLACEMENT (AP) OR ACCELERATED PROGRAM INSTRUCTIONAL MATERIALS AVAILABLE FOR THE COURSE(S) BID FOR ADOPTION?

HMH does not offer an Advanced Placement or Accelerated version of HMH Science Dimensions.

13. WHAT, IF ANY, FOREIGN LANGUAGE TRANSLATIONS DO YOU HAVE AVAILABLE?

The HMH Science Dimensions program will be available in Spanish in early 2018. The HMH Science & Engineering Leveled Readers are available in Spanish. The Florida Statewide Science Assessment Review and Practice Student Book and Teacher's Guide will be available in Spanish. The English-language program includes a multi-language glossary that presents key terms and definitions in English, Spanish, Chinese, Vietnamese, Khmer, Laotian, Arabic, Haitian Creole, Russian, and Portuguese. Also included is an English-Spanish interactive glossary that delivers vocabulary and definitions with visuals or video and English and Spanish audio text readers.