

HMH Science Dimensions®

Program Components and Features

GRADES 6–8

STUDENT RESOURCES

Student Edition, Print

FEATURE HIGHLIGHTS:

- ▶ **Interactive, Magazine-Style, Research-Based Worktext**—to support the way students learn best—by interacting with content. The print SE allows students to write, draw, underline and circle responses, and take notes
- ▶ **“Why It Matters”**—asks students to consider how science affects the world around them
- ▶ **“By the End of This Lesson” objectives**—to stimulate students’ thinking about the big ideas of science
- ▶ **Engaging lesson openers**—to connect learning to discrepant events or phenomena
- ▶ **Science Notebooking prompts**—to encourage students to gather evidence to support their claims, draw models and diagrams, and develop the reasoning behind the scientific explanations they construct
- ▶ **Vocabulary**—highlighted within the sentence so students focus on the contexts and concepts behind words
- ▶ **Collaboration prompts**—so students drive their own learning through discussion and teamwork with peers
- ▶ **Modeling activities**—to enable students to practice this critical scientific and engineering process
- ▶ **Engineering connections**—to help students engage in the design process to solve problems like engineers
- ▶ **People in Science & Engineering profiles**—to interest students in the wide variety of STEM careers available in today’s world
- ▶ **Math and English language arts connections**—to strengthen students’ skills in cross-curricular areas
- ▶ **Lesson Self-Check**—to provide useful checkpoints for understanding
- ▶ **Checkpoints**—to measure student understanding of lesson concepts, skills, and applications
- ▶ **Interactive Review**—students summarize the main concepts of the lesson to test their understanding.
- ▶ **Hands-on Activities**—so students can practice scientific exploration and evidence gathering
- ▶ **Data Analysis**—to guide students in interpreting and explaining evidence
- ▶ **Unit Connections**—so students can see how their learning applies to engineering, social studies, computer science, the arts, and other areas of study
- ▶ **Unit Practice and Review**—for review and evaluation
- ▶ **Unit Projects**—so students can engage in project-based learning
- ▶ **Unit Performance Task**—enabling students to construct their own solution to a problem

HMH Science Dimensions®

STUDENT RESOURCES

Student Edition, Interactive Online Edition

FEATURE HIGHLIGHTS:

- ▶ **All the features of the Print Student Edition *plus*:**
- ▶ **Animations and Videos**—to enhance student understanding through engaging multimedia
- ▶ **Open-ended answer responses**—where students can type or draw their answers to open-ended question prompts
- ▶ **Technology-enhanced inputs** like dropdown select, multi-select, and drag and drop prepare students for high-stakes tests, allow them to receive immediate feedback on their responses, and offer teachers ongoing formative assessment feedback
- ▶ **Take It Further**—to empower students with personalized learning paths, so they can continue their studies in the areas that most interest them
- ▶ **Highlighted Vocabulary**—to link students directly to definitions
- ▶ **Unit Project Worksheets**—to help students plan their thinking around project-based learning
- ▶ **Downloadable PDF Worksheets for Labs**—for added convenience

Wow in the World and Two Whats and a Wow Podcasts

to engage students in surprising science facts and the engineering design process

Student Edition PDF (Downloadable)

for the convenience of digital or hybrid learning environments

Math and ELA Online Handbooks

to refresh students' knowledge of essential math and English language arts skills

Science and Engineering Practices and Crosscutting Concepts Online Handbooks

for additional activities to support the SEPs and CCCs

You Solve It

to engage students in open-ended, simulation-based learning with multiple answer options

ScienceSaurus®

to reinforce Disciplinary Core Ideas coverage with colorful illustrations and clear explanations of key science vocabulary and concepts

Family Resources

home letters and videos to support science learning at home

HMH Science Dimensions®

TEACHERS RESOURCES

Teacher Edition, Print

FEATURE HIGHLIGHTS:

- ▶ **3D Learning Objectives**—custom stepping-stone objectives for integrating the Three Dimensions of Learning
- ▶ **PEs, SEPs, CCCs, and DCIs**—clearly labeled for each lesson to help you navigate the new standards
- ▶ **Connections to Math and ELA**—outlined in each lesson to connect science content to other curricular areas
- ▶ **Building on Prior Knowledge**—to access students' existing knowledge about the subject matter
- ▶ **Differentiating Instruction features**—to individualize instruction for every student
- ▶ **EL Support**—to address the needs of English learners in your classroom
- ▶ **Content Background refreshers**—to provide context for what is being taught in class
- ▶ **5E Model**—to maximize teaching effectiveness via a research-based learning model
- ▶ **Evidence Notebook support**—to guide students as they journal about their thinking
- ▶ **Collaboration support**—to help inspire group interaction
- ▶ **Hands-On Activities support**—to preview time requirements, objectives, and preparation needs

Teacher Edition, Interactive Online Edition

FEATURE HIGHLIGHTS:

- ▶ **All the features of the Print Teacher Edition *plus*:**
- ▶ **NGSS Trace Tool**—to clarify how NGSS* spirals through and is covered in each grade
- ▶ **Professional Learning Videos**—to provide on-demand support from thought leaders and experts on the NGSS

Teacher Edition PDF (Downloadable Teacher Resource Tool)

for ease of use in digital and hybrid learning environments

Assessment Guide

for easy access to your print assessment resources

Online Assessment with Item Banks

for customizable digital assessment options and automated informative reporting

Performance-Based Assessments

for hands-on assessments of the Performance Expectations of NGSS

ASSESSMENT RESOURCES

**PARENT
RESOURCES**

Parent-Facing Videos

offering background and explanations concerning NGSS*

Parent Letter

orienting parents to the topic of study and providing tips on supporting instruction with at-home discussions or quick activities

**ENGLISH
LEARNER
RESOURCES**

Spanish Student Edition, Print

Spanish Student Edition, eTextbook (ePub, download)

Spanish Assessment Guide

Online Multilingual Glossary

providing definitions for science terms in 12 different languages

**ADDITIONAL
RESOURCES**

Teacher's Corner

a hub of professional learning and teaching support resources

Ed®: Your Friend in Learning

online learning system that combines the best of technology, HMH® content, and instruction to personalize the teaching and learning experience for every teacher and student

HMH Go™ app

for accessing program content offline and for maximum compatibility in 1:1 or in Bring Your Own Device learning environments

Common Cartridge®

supporting integration of content into compatible Learning Management Systems

To learn more and get an online preview, visit
hmhco.com/sciencedimensions

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