

HMH Science Dimensions®

HMH Dimensiones de las Ciencias™

Program Components and Features

GRADES 9–12

Student Edition, Print

FEATURE HIGHLIGHTS:

- ▶ **Thing Explainer** illustrations from **Randall Munroe of xkcd.com fame**—for additional coverage of Disciplinary Core Ideas
- ▶ **Driving Questions**—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 that supports 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
- ▶ **Math and English language arts connections**—to strengthen students' skills in cross-curricular areas
- ▶ **Guided Research features**—so students practice conducting and applying research
- ▶ **Lesson Self-Check**—to provide useful checkpoints for understanding
- ▶ **Checkpoints**—to measure student understanding of lesson concepts, skills, and applications
- ▶ **Hands-on Activities and Labs**—so students can demonstrate scientific procedures and analysis
- ▶ **Data Analysis**—to engage students in this critical process for constructing scientific explanations
- ▶ **Make Your Own Study Guide prompts**—to put students in charge of their own learning and review
- ▶ **Crosscutting Concept icons**—to highlight connections to Cause and Effect; to Energy and Matter; to Scale, Proportion, and Quantity; and more
- ▶ **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

Spanish Student Edition for Biología (separate purchase)

STUDENT
RESOURCES

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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 prompts**—to encourage students to type or draw their answers to open-ended questions
- ▶ **Technology-enhanced inputs** like dropdown select, multi-select, and drag and drop to 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
- ▶ **Extension opportunities**—to stimulate thinking in students who need an additional challenge
- ▶ **Highlighted Vocabulary**—to link students directly to the definitions
- ▶ **Unit Project Worksheets**—to help students plan their thinking around project-based learning
- ▶ **Downloadable PDF Worksheets for Labs**—for added convenience

Student Edition PDF (Downloadable)

CliffsNotes® *On the Job Videos*

to interest students in STEM careers and show them what an actual workday looks like in different fields!

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 students who need extra support in grasping the SEPs and CCCs

You Solve It

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

Online Multilingual Glossary

definitions of key vocabulary terms in several languages.

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TEACHER 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 familiar learning model
- ▶ **Evidence Notebook support**—to guide students as they journal about their thinking
- ▶ **Collaboration support**—to help inspire group interaction
- ▶ **Hands-On Activities and Labs support**—to efficiently conduct labs by previewing the time required, the objective, and any preparations

Teacher Edition, Interactive Online Edition

FEATURE HIGHLIGHTS:

- ▶ **All the features of the Print Teacher Edition *plus*:**
- ▶ **K–12 Standards Trace Tool**—to clarify how NGSS* spirals through each grade and where your instruction fits
- ▶ **Professional Learning Videos**—to ease your transition to NGSS with support from thought leaders and experts
- ▶ **Lab Resources and Materials List**—to help you seamlessly integrate labs

Teacher Edition PDF (Downloadable Teacher Resource Tool)

NGSS Trace Tool

shows how standards connect and spiral from one grade band to another.

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ASSESSMENT RESOURCES

Assessment Guide

for easy access to your print assessment resources

Online Assessment with Item Banks

for compiling your own quizzes and tests

Performance-Based Assessments

to prepare students for high-stakes tests on the Performance Expectations of NGSS

Parent-Facing Videos

offering background and explanations concerning NGSS*

Parent Letters

introduces this unit's key concepts and Performance Expectations, and includes an activity that students and families can do together at home.

Teacher's Corner

a hub of professional learning and teaching support resources

Ed: the HMH Learning Platform

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

PARENT RESOURCES

ADDITIONAL RESOURCES

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