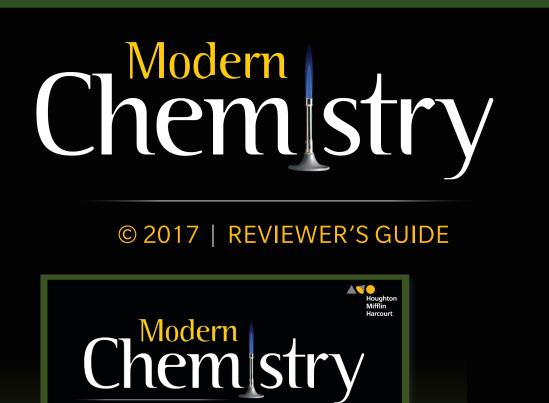


Sarquis • Sarquis





NaC

Featuring content from THING and EXPLAINER and Google Expeditions

#### Houghton Mifflin Harcourt Modern Chemistry®

#### Less paper, more **convenience**

### Everything you need—now in one convenient online location!

The Interactive Online Edition gives students and teachers 24/7 point-of-use access to all program components.

		p Center - Settings With Network
A Cashboard	Search for Resources	•Q = Browse
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Lands Vers your daily schedule have. C the typ softwareflawer	Teacher Books Baster Lation Pow	eriotes
1Garth	Assignments ©	Reports C
Tiam	1 Marilla Maria	Scores Under 50% 50%-30% Over 70
1215 pm	View solgements/by the sold several se	View student works for assessments during his product works

#### Dashboard

Classrooms using **Modern Chemistry** © **2017** will now have the benefit of the **improved** online interface provided by the HMH Dashboard. This also includes *my*SmartPlanner, enabling teachers to combine calendar functionality with curriculum mapping and program resources.

#### Try it now!

Just follow these steps to see how interactive and engaging online resources can be!

1	Go to:	HMHScience.com
2	Click on	PREVIEW
3	Enter Sample Word and Click Next:	HSNASC17
4	Fill in the Required Personal Information, Click the Checkbox to Agree to the Terms of Use and Privacy Policy, and Click:	Register
5	Write Down Your User Name and Password and Log in at:	HMHScience.com

#### Any Device, Anytime, Anywhere

#### Why It Matters

Each chapter opens with a dynamic video that relates the content to everyday life.

#### **Virtual Labs**

Students can conduct meaningful experiments in a simulated lab or field setting without the expense, time, or risk of traditional lab settings.

#### **Animated Chemistry**

Animations and simulations help students visualize and comprehend complex concepts.



#### Learn It! Videos

Tutorial videos walk students through challenging problems and offer tips for success.



#### Solve It! Cards

Portable reference cards offer quick access to strategies for solving almost any chemistry problem.

#### **NGSS\* Correlations**

Correlations both online and in the TE facilitate standards implementation.



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#### Print components designed and **aligned** for easy access

HMH Modern Chemistry enables you to reach all learners by providing time-saving, easy-to-use resources to help students of all abilities achieve understanding and success.



Offers features that make chemistry concepts more accessible, such as highlighted vocabulary, problem-solving support, and references to online student support tools.

> **Matter and Its Properties**



Packed with a wide variety of strategies to help all students master chemistry concepts, plus **extended** learning opportunities for advanced students.

Teaching Tip

room Catalys

Dr. Jerry Sarquis, Professor Emeritus. Chemistry Education, Miami University

Modern

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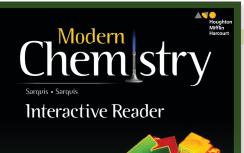


Mickey Sarquis, Professor Emerita, Chemistry Education, Miami University

#### **Meet the Authors**

Dr. Jerry Sarquis and Mickey Sarquis were both professors in the Department of Chemistry at Miami University in Oxford, Ohio. These renowned authors were motivated to contribute to **Modern Chemistry** because they had a desire to give back to the community, and they wanted to influence students whom they couldn't even see, through the unfolding of a textbook and all the resources that support such a book. Jerry and Mickey Sarquis got into teaching because of their love of learning, and the more they taught, the more they learned from their interactions with their students.

**#HMHScience** 



#### **Interactive Reader and Answer Key**

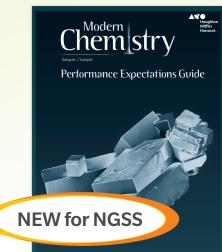
A write-in worktext that provides all of the essential content and vocabulary of the Student Edition at a reading level one to two grades below the text. A great resource for students of all ability levels, the Interactive Reader is both a core instructional tool for struggling students and a useful study guide for all students. The Answer Key provides teacher notes and answers for every section of the Interactive Reader.

# <image>

#### Engineering Design Guide Student Edition and Teacher Edition

ENGLISH & SPANISH

This Engineering Design Guide provides an overview of the **engineering design process**, along with activities and checklists that can help foster students' **critical-thinking** and **problem-solving skills**. For curriculums aligned to NGSS\*, this guide can also help support the engineering-related Performance Expectations.



#### Performance Expectations Guide Student Edition and Teacher Edition

Designed to integrate easily into any curriculum, a separate Performance Expectations Guide is available to ensure that students meet the NGSS Performance Expectations. Also included is an **overview of NGSS** and **teacher tips** for integrating each activity into the classroom.



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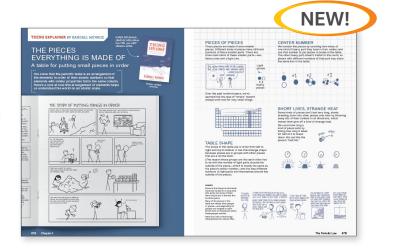
#### **Print and Digital Tools That**

#### Motivate and Engage

HMH Modern Chemistry offers the latest print and multimedia resources that speak directly to your students in a visual language they understand ensuring that they will stay engaged.

#### **Thing Explainer**

Through an exclusive partnership with author and Internet sensation **Randall Munroe**, HMH has incorporated highly engaging and educational material from Randall's latest book, *Thing Explainer*, into our print and digital editions. Randall's webcomic style, as seen on **xkcd.com**, humorously explains complex topics in easy-to-understand language.





#### Google Expeditions

Through its alliance with Google<sup>®</sup>, HMH is developing content for Google<sup>®</sup> Expeditions. Using a simple Google Cardboard<sup>™</sup> device and a smartphone, students are swept away into **immersive virtual worlds** where learning and engagement are maximized. These virtual field trips are 3D, 360-degree experiences in fascinating locations, directly tied to content! A **Teacher Guide** provides ideas for incorporating the Expeditions into your lessons, as well as tips on **how to guide and customize the experience.** 



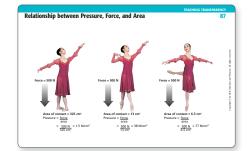
#### **On the Job STEM Videos**

As part of our Premium offering, HMH now includes 29 *On the Job* STEM videos that **profile STEM careers** in today's fastest-growing industries. Our energetic hosts shadow passionate professionals in a day "on the job." These short segments are inspirational and entertaining with the hosts actually performing parts of the job! These videos will **motivate students** to enter emerging STEM fields.

#### Why It Matters Videos

Seventeen chapterintroductory videos are an effective way to begin a new topic of chemistry study. Each video is designed to take the content of the chapter and relate it to everyday objects or situations that are familiar to students.





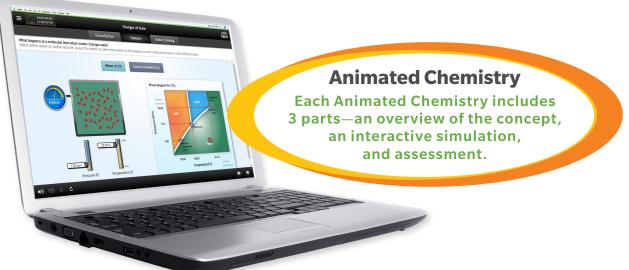
#### **Teaching Visuals**

Digital versions of key illustrations and diagrams are ideal for **wholeclass instruction.** 



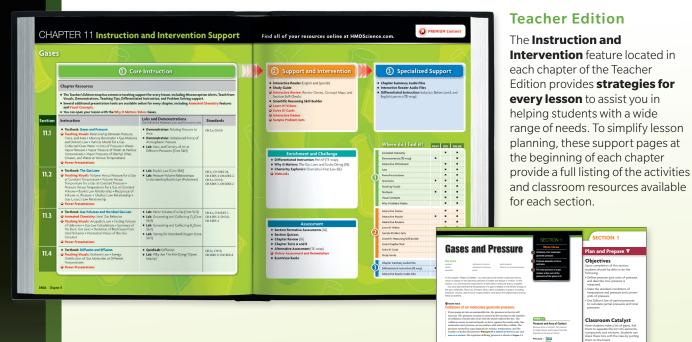
#### Interactive Whiteboard Resources

IWB resources include interactive **teaching visuals** and **content-reinforcement lessons** for each chapter of the textbook.



#### **Unparalleled resources for Differentiated Instruction**

Students approach chemistry with a wide variety of skills and levels of preparation. HMH Modern Chemistry gives teachers what they need to help all students succeed.



The wrap margin includes a Differentiated Instruction feature with a wide variety of strategies to help all students master chemistry concepts. Material categories include Below Level, English Learners, Pre-AP<sup>®</sup>, and Inclusion.

<u>Ed</u>itable!

PTER 11 R

MIXED REVIEW

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Gases

#### ELOW LEVEL ELOW LEVEL as students do ajgrow activity to intro-uce this chapter. Divide the class into groups, 13–4 students and give each group a number wide section 1 of this chapter into 3 or 4 minut, and mane them A & C. cht. Give each udent may aroug a letter delignation in difficito to their group number. For example, a udent might be delignated at A. Have the A udents from all group discuss and deter-ine the major concepts within part A of the root. The 8 students will do has some with

The B students will do the si

#### **Chapter and Section Study** Guide

The student worksheets in this guide cover the content in each section of the textbook using a variety of questioning strategies.

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(a) adulted.     (b) a third as much.     (c) expled.     (d) mutuaged be     (d) mutuaged be     (e) 2 am     (f) 2	(c) 7 (d) 1 urtial pressure of	6 torr 00 N/m <sup>2</sup> a dry gas that is collected
(c) tripled. (d) unchanged. (e) unchanged. (e) 50 H2 (h) 2 arm 3. Explain how to calculate the power water when the total pre- over water when the total pre- PROBLEMS Write the answer on space provided. 4. a. Use first to six data points the carro for water yards	(c) 7 (d) 1 urtial pressure of	6 torr 00 N/m <sup>2</sup> a dry gas that is collected
(d) unchanged. 2. Rank the fit (a) 30 kPn (b) 2 aim 3. Explain how to calculate the over water when the total pre PROBLEMS Write the answer on space provided. 4. at. Use first to six data points the carror for water varyon	(c) 7 (d) 1 urtial pressure of	6 torr 00 N/m <sup>2</sup> a dry gas that is collected
CRank the fi     (b) 2 atm     (b) 2 atm     (c) 30 E2     (c) 40     (c)	(c) 7 (d) 1 urtial pressure of	6 torr 00 N/m <sup>2</sup> a dry gas that is collected
(a) 50 kPa (b) 2 am 3. Explain how to calculate the p over water when the total pre- problem of the state of the state of the space provided. 4. a. Use five to six data points the carve for water vagor.	(c) 7 (d) 1 urtial pressure of	6 torr 00 N/m <sup>2</sup> a dry gas that is collected
(b) 2 atm 3. Explain how to calculate the power water when the total pre 	(d) 1 urtial pressure of	00 N/m <sup>2</sup> a dry gas that is collected
3. Explain how to calculate the over water when the total pre- problem of the total pre- problem of the second pre- provided.     4. a. Use five to six data points the curve for water vapor	urtial pressure of	a dry gas that is collected
PROBLEMS Write the answer on space provided.	sure is atmospher	ric pressure.
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space provided. 4. a. Use five to six data points the curve for water vapor'		
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space provided. 4. a. Use five to six data points the curve for water vapor'		
space provided. 4. a. Use five to six data points the curve for water vapor'		
<ol> <li>a. Use five to six data points the curve for water vapor</li> </ol>	he line to the left.	Show all your work in the
the curve for water vapor		
graph provided below.	s partial pressure	versus temperature on the
graph provided below.		
30		
25		
8		
20 20 215		
15		

#### Interactive Reader Audio Files

nception Alert

The entire Interactive Reader has been professionally read and is available to students to help **bolster learning** comprehension.



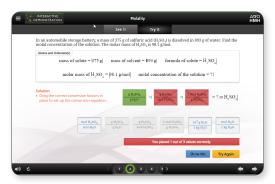
#### and Problem Solving

Nearly half of the sample problems in HMH Modern Chemistry have been refreshed to give even the most loyal program users something new and different to challenge and strengthen their students' problem-solving skills.

	Using the Ideal Gas Law		∆% HMI
	> Solve > Check Your Work> Wrap Up		
What is the pressure in atmosp	heres exerted by a 0.500 mol sample of nitrogen gas	Work History	Notes
In a 10.0 L container at 250 K?			<b>[</b> 2]
Now analyze the last given. W volume, V mass. m	hat kind of quantity is 298 K? temperature, T pressure, P	Given n = 0.500 mol of nitroge 10.0 L 258 K	rn gas
	pressure, p		

(2) 3 🕢 5 6

Solution Tutor Guides students step-by-step through selected problems, recognizes their error patterns, then provides hints and targeted remediation to improve their problem-solving skills.



#### **Interactive Demonstrations**

Each sample problem in the textbook has an accompanying Interactive Demonstration that **walks through the steps of solving** that type of chemistry problem. The Try It Yourself feature helps students apply what they have learned. Each includes a full audio narrative.

# the bit above of kerne is the result of the transmission of transmission of the transm

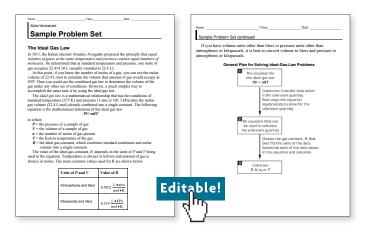
ic Particles (Sample Problem B)

#### Learn It! Videos

Forty professional tutorial videos **walk students through challenging chemistry problems**, with tips and strategies for success.

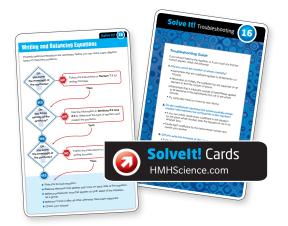
#### Sample Problem Sets

These skills worksheets provide **problem-solving strategies** and an extensive bank of student **practice problems** for every type of chemistry problem in the textbook.



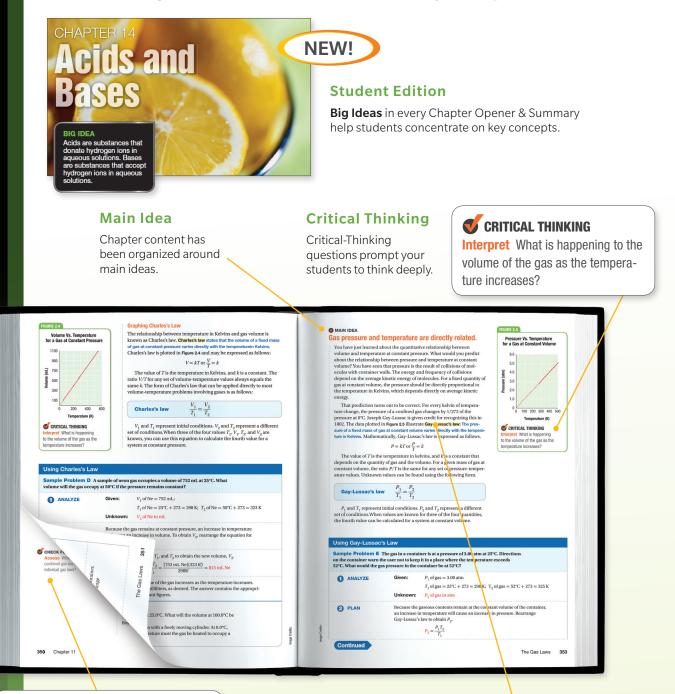
#### Solve It! Cards

These printable and **portable reference cards** provide students with quick access to effective problem-solving strategies and guidelines.



## Wide-ranging support for **Reading** and **Vocabulary**

Your students will get the most out of their reading with numerous student and teacher print and multimedia point-of-use resources that enable them to build understanding and retain more information on key concepts.



#### **V** CHECK FOR UNDERSTANDING

**Assess** What advantage does the combined gas law have over the three individual gas laws?

#### Check for Understanding

These reading comprehension questions help reinforce the important points of the section.

#### **In-text definitions**

As students study, they'll find key vocabulary has been highlighted in context.

#### #HMHScience



**Interactive Reader** 

#### **Interactive Reader**

This write-in worktext presents all the vocabulary and essential content from the textbook in a lower-level, easy-to-read text, with instructional visuals and frequent comprehension checks. This unique component is a great tool for all students-the core content for struggling students and a useful study guide for others.

#### SECTION 5.3

**Electron Configuration** and Periodic Properties

Critical Thinking

Apply In a gold block, individual

2 CHAPTER S

La configuración electrónica y las propiedades periódicas

**Interactive Concept Maps** 

Each chapter includes an interactive, advanced graphic organizer that shows the relationships among concepts covered and helps students develop logical thinking and study skills.

2 CAPITULO 5

ENGLISH & SPANISH





#### **CliffsNotes**<sup>®</sup> **Chemistry Quick Review**

CliffsNotes

Chemistry

Quick Review

Master the Basics -Fast

Complete coverage of core concepts

Easy topic-by-topic organization

Access hundreds of practice problem at CliffsNotes.com

ntials FAST from the experts at CliffsNotes

With a Premium package purchase, a class set of these study guides provides essential reinforcement of core concepts in an easy-touse format.

#### eBook

This online version of the print Student Edition features a wealth of **built-in tools** to help students access the content, including the chunking of content around Main Ideas, with frequent comprehension checks, superior support for problem-solving, highquality instructional visuals, point-of-use references to online animations, Problem-Solving tutorials, and virtual labs that make abstract concepts more concrete. Features include data persistence, on-page media links, bookmarking, search, notes, and highlighting functionality.

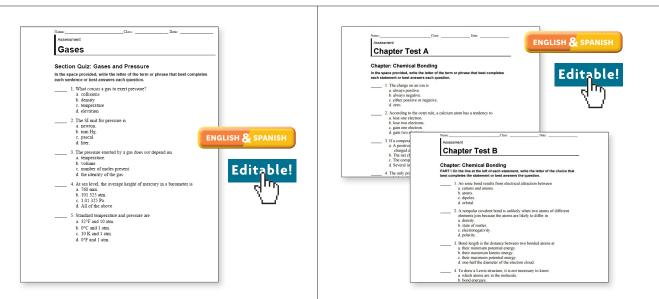
#### Flexible **Assessment Tools** to Track Student **Progress**

The comprehensive assessment options located on HMHScience.com bring together all HMH *Modern Chemistry* assessment tools into one convenient place, giving you many choices for the best way to assess your students' learning.



#### ExamView<sup>®</sup> Banks

A complete ExamView Software Suite includes all assessment questions for the program and more than **2,300 additional questions** in Bonus Banks.



#### **Section Quizzes**

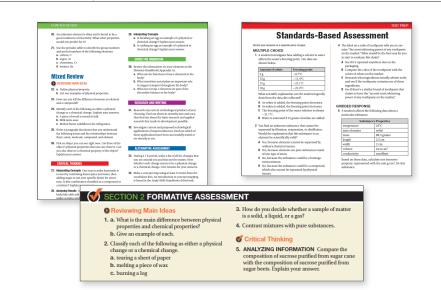
A 10-question multiple-choice and short-answer quiz for each section of the textbook. These are designed for student **formative assessment** to aid in remediation.

#### **Chapter Test A & B**

Two **full-length** chapter tests include multiple-choice and short-answer questions. Test B is similar to but more challenging than Test A.

#### Review and Assessment in the Student Edition

The Student Edition contains **multiple levels of assessment** from Formative to Summative along with helpful review questions that assess students' understanding of chapter and section material.





Three different styles of vocabulary and concept review games help reinforce the material learned in each chapter in a fun and engaging format.

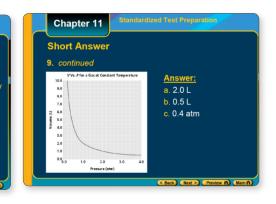
# Chapter 11 Reviewed Text Previous Preview Aultiple Choice Multiple Choice Short Answer Multiple Choice Extended Response Chapter 11 Enderstand Text Previous Multiple Choice Short Answer Short Answer Chapter 11 The graph on the next slide shows a plot of volume versus pressure for a particular gas sample at constant pressure. Answer the following questions by referring to the graph. No calculation is necessary. What is the volume of this gas sample at standard pressure? What is the volume of this gas sample at 4.0 at more sure? At what pressure?

Score: 400

#### **PowerPresentations: Standardized Test Preparation**

Multiple-Choice, Short-Answer, and Extended-Response questions that you can use for **whole-class review** of chapter materials.

< Back) (Next >) (Proviow ft) (Ma

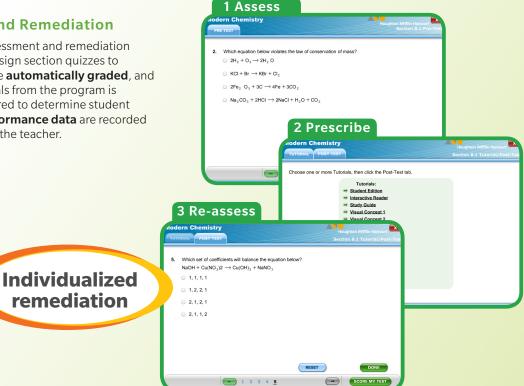


#### **Online Assessment and Remediation**

Pyramid

The form of nuclear division that divides a dir cells is called

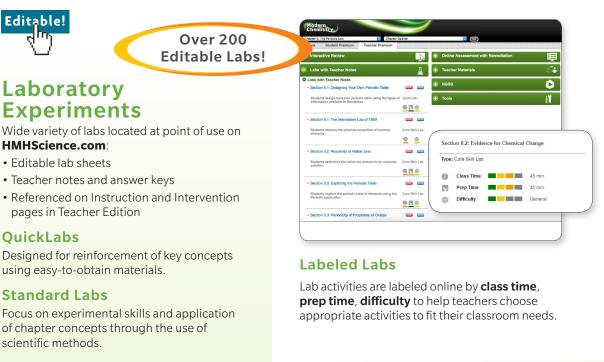
An advanced, automated assessment and remediation engine enables teachers to assign section quizzes to students. The assessments are **automatically graded**, and remediation that uses materials from the program is prescribed. A post-test is offered to determine student mastery. Critical student **performance data** are recorded and made readily available to the teacher.



#### **Convenient access to**

#### Labs, Data Analysis and STEM

HMH Modern Chemistry includes the most comprehensive lab resources with its wide variety of print and digital lab options for every classroom, along with the most robust data-analysis strand to help students develop these critical skills.



#### **Core Skill Labs**

Provide practice of inquiry skills and scientific methods.

#### STEM Labs

Science, Technology, Engineering, and Mathematics problem-based labs that emphasize inquiry and the engineering design process.

#### **Open Inquiry Labs**

Specifically designed to be short projectbased labs that encourage students to collaborate, strategize, construct, and evaluate a lab challenge of their own creation.

#### Probeware Labs

Labs that use Vernier<sup>®</sup> probeware and Pasco<sup>®</sup> probeware and SPARK® technology.

#### **Forensic Labs**

Application labs that have students demonstrating laboratory skills through the exploration of forensic and applied science scenarios.

#### OPEN INQUIRY LAB Studying What You Can't See

In this lab, you will determine the topography of a distant planet and create a map of its surface for the purpose of identifying a good landing site for a spaceship on an exploratory mission. PURPOSE Determine a distant planet's unknown surface, using remote sensing and measuring techniques that are used for objects that cannot be seen. OBJECTIVES Hypothesize the type of planetary surface features that will yield a good landing

Design an experiment that uses premade topography surface boxes. 
 Beasure the topography, using premote mea

 Organize and map data according to locatic

 Relate the use of topogra

 exploratory spaceship to

 STE
 ing techniques.

MIAR

Allergic to Color

#### POSSIBLE MATERIAL aluminum foil awl

· crayons

Teacher Notes and Answers · colored pencils LAB RATINGS Easy -1 2 3 4 Hard Student Setup—2 Concept Level—3 Cleanup—? SKILLS ACQUIRED

Analyzing data
Applying concepts
Collecting data
Communication
Comparing and contrasting
Experimenting
Identifying patterns
Inferring
the second se

Organizing data PREPARATION Prior to the lab, heat some water. Assemble all a

When each chromatography strip is lowered into a solver placed on the strip must rest above the surface of the solv of dye to come into direct contact with an interest of the solv

TIPS AND TRICKS This lab works best with pairs of students.

CHECKPOINTS

© Haghee Millie Harvart Publishing Company Holt McDougal Modern Chemistry STEM Lah

**STEM labs** 

**Inquiry labs** 

dr and 15 minuter of a third perior

1. By the end of the first class period, have students turn in a detailed one-page plan/procedure for anorwal

During the second class period, have students revise procedures according to your comments and begin the procedure.

Solutions Section 2: The Solution Process

#HMHScience

#### STEM in the Student Edition

Select STEM features now include an Engineering Design feature in the Student Edition. This feature encourages students to follow the engineering design process and think about problems in an innovative way.

#### WHY IT MATTERS

The Gas Laws and Scuba Diving



ST.E.M

## ABS AND STEM

#### **Data Analysis** Support for Students

To help students develop the data analysis skills necessary to collect, graph, and analyze data like scientists, HMHScience.com includes resources to support the data analysis lesson in every chapter.

	Data	Graph			Graph Types
70	Reactio	on Rate			N 14
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20	/				
a)	/				D
42	/				X : time Som Value - End Kalue
35	/				1 15
28	1				y: Rate
21	/				Start Value End Value
14					
1	/				Bato
	4 5 6 7	8 9 10	1) 12	15 14	15
	+1	time			

#### **Smart Grapher**

dentify the unknown me he mineral based on its

A powerful, easy-to-use **online graphing tool** that encourages students to use their own data to create line graphs, circle graphs, and more.

#### Scientific Reasoning Skill Builder

Over **100 exercises** that strengthen students' scientific reasoning skills. Sample topics include classifying and categorizing, cause-and-effect relationships, hypothesis, generalizations and analogies, and summarizing and reviewing.

#### **Pre-Lab Procedures**

This resource provides **Teacher Resource Pages** and worksheets to help students develop the skills necessary to complete chapter labs.

#### Graphing Calculator Activities

HMH has partnered with Texas Instruments to present nine **graphing activities** for use with the TI-Nspire<sup>™</sup> graphing calculator.

#### Virtual Labs

Students can hone their lab skills in a virtual environment. Fun, safe and highly interactive, these labs focus on experiments for which equipment and materials are often expensive or difficult to acquire.

### Chem stry

#### Join the conversation! #HMHScience

The © 2017 *Modern Chemistry* program is available in five configurations: Premium, Hybrid, Digital, Digital Enhanced, and Class Set packages. The Hybrid bundle is the base option, with the print Student Edition and Teacher Edition, the student eBook, and all worksheets, labs, and Spanish resources. The Premium bundle provides added print resources, such as Interactive Readers and CliffsNotes<sup>®</sup> Study Guides. Digital bundles offer a low-cost, digital-only option. The Premium, Hybrid, Digital Enhanced, and Class Set bundles include the *On the Job* STEM videos and rich multimedia, animations, and simulations. Common Cartridge<sup>®</sup> options are also available for purchase.

Student*** 📒 🛛 Teacher 📒	Print	Digital
Student Edition		
Teacher Edition		
Interactive Reader (and Answer Key for Teacher)** <ul> <li>Online Audio Files (English only)</li> </ul>		
Performance Expectations Guide SE/TE		
Engineering Design Guide SE/TE		
CliffsNotes Chemistry Quick Review (with Premium package only)		
Interactive Online Edition		
NGSS* Correlation Tool		
Teacher Guide for Google Expeditions		
<ul> <li>Student eBook: Chapter Summaries Audio files and SE pages**</li> </ul>		
Worksheets (Section Study Guides, Chapter Study Guides, Graphing Calculator Activities)		
• Labs** (STEM, Open Inquiry, QuickLabs, Standard, Challenge, Biotechnology, Probeware, Forensic, Virtual Labs)		
<ul> <li>Lab Resources (Labs with Teacher Notes, Laboratory Manager's Professional Reference, Probeware Instruction Sheet, Pre-Lab Procedures, Comprehensive Materials List, Graphing Calculator Instructions)</li> </ul>		
<ul> <li>Student Toolkit (Scientific Reasoning Skill Builder, Project Resources, Smart Grapher, FoldNotes, Periodic Table, Glossary, Scientific Calculator, Graphing Calculator)</li> </ul>		
Teacher Toolkit (Teaching Strategies, Classroom Management Resources, Lesson Plans, Project Resources)		
Multimedia and Activities (Animated Chemistry, Virtual Labs, Why it Matters Videos, Weblinks)		
Presentation Tools (Teaching Visuals, Interactive Whiteboard Resources, PowerPresentations)		
On the Job STEM Videos (with Premium package only)		
Problem Solving Support (Learn It! Videos, Solve It! Cards, Sample Problem Sets, Interactive Demonstrations, Solution Tutor)		
Interactive Review (Interactive Concept Maps, Interactive Review Games)		
Online Assessments (ExamView, Section Quizzes, Chapter Tests A&B, Online Assessment with Remediation)		

\*Next Generation Science Standards and logo are registered trademarks of Achieve. Neither Achieve nor the lead states and partners that developed the Next Generation Science Standards was involved in the production of, and does not endorse, this product.

\*\*Also available in Spanish. \*\*\*All of the student-facing resources are available to the teacher via the Teacher's Interactive Online Edition.

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