



ALPHA PUBLISHING

# US K-12 Catalog

# Welcome to Alpha Publishing

Alpha Publishing believes that children and adults have the right to a quality education. Continuous learning is the best means of improving the lives of individuals and enhancing the standards and quality of our communities.

Our mission is to provide educational materials and courses across Africa, Asia, the Middle East and Latin America that meet international standards while also reflecting and incorporating the cultures and traditions of the region.

Our dedicated publishing teams are mindful of the different types of learners who come from various national and cultural backgrounds; therefore, our publishing strategy is driven by the motto: **"We are in the Region, for the Region."** We pay the utmost attention to the delivery of globally recognized and culturally appropriate content and innovative teaching tools not just in our books but through **eAlpha**, our digital CLMS platform.



## Lifelong Learning

We make constant endeavors to bring global experience, expertise, and best practices to what we publish, while bearing in mind the region's current and future learning and teaching requirements.



## Innovative and Futuristic

We ensure that all of our products are based on the latest research in education and make the mission of international standards a reality. We are committed to delivering both traditional print and innovative, interactive online educational experiences.



## Latest Technology

We put great stock in the importance of technology to produce cutting-edge programs and courses for the educational transformation of the community.



## Results-Oriented

At Alpha, we know that enhancing teaching and learning outcomes is a key element for measurable impacts.



## Publishing Excellence

We guarantee that what we publish is reliable and trustworthy, both globally and regionally.

# US K-12

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NEW

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NEW



# eALPHA

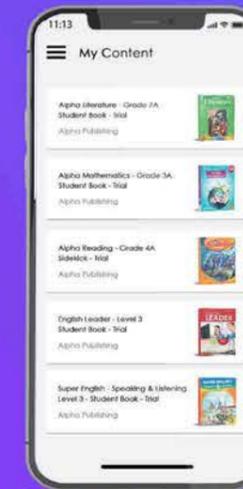
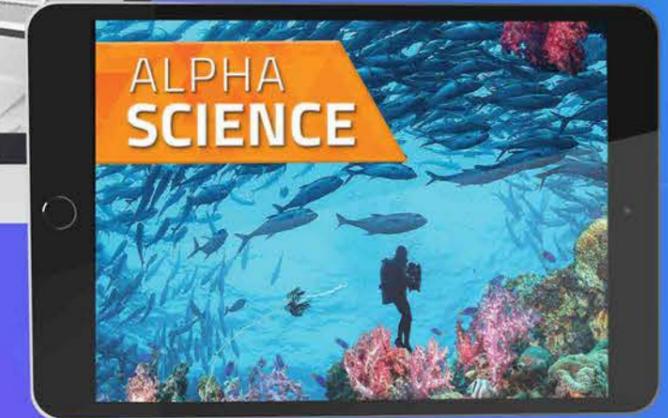
Mobile eLearning Platform

TURNING technologies

# EXAMVIEW®

LEARNING SERIES

Alpha's Content Learning Management System for both students and teachers gives access to premium interactive lessons and resources to create virtual classrooms for all students both online and offline. eAlpha makes learning a personalized, exciting and enriching experience.



Cross-platform Offline Application

[www.eAlpha.info](http://www.eAlpha.info)



Easy to Use



Engaging Audio



Informative Videos



Online / Offline Resources



Online Reporting



Interactive Content



# Ongoing Teacher Support

## Professional Development & Product Training

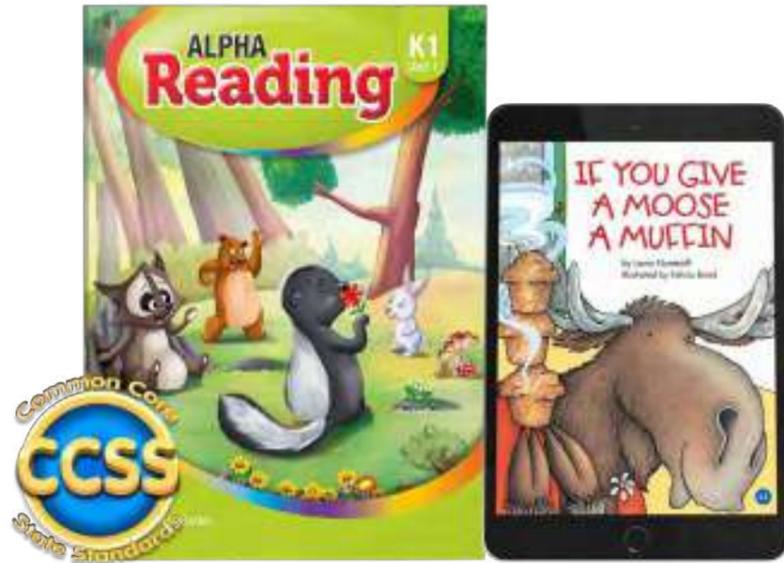
Providing ongoing professional development for educators is one of the most critical success factors for better learning and teaching outcomes.

Alpha Publishing, in partnership with KDSL Global and a careful selection of independent trainers, provides tailored program support, PD sessions, school and campus conferences, and leadership and school management courses.

Our professional development programs are ongoing, include training, practice, and feedback, and are tailored to the needs and requirements of the teachers and institutions.

For more information and PD resources, please visit [www.alphapublishing.com](http://www.alphapublishing.com).

Grades K1 & K2

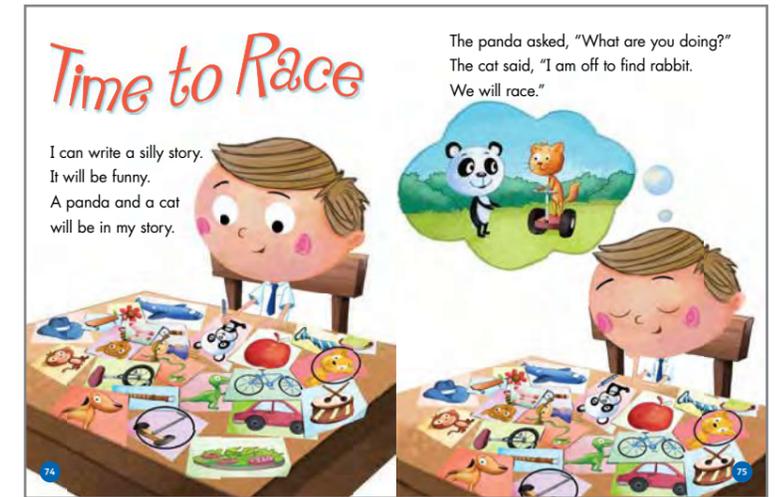


- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content
- Audio (Text to Speech)

The Alpha K ELA Program understands the importance of engaging children with the art of reading and setting them up for a lifelong love of literature. Alpha K ELA follows a carefully integrated, multimodal approach for introducing language arts skills and guiding students toward acquiring mastery of reading, writing, and speaking the English language.

Student Book

The beautifully illustrated paired selections of stories reflect the integrated model of literacy required by the CCSS and help students to build on the skills developed at the pre-reading stage (decoding stories through images and identifying characters, settings, and main events).



Text Connections

After each paired text selection is a set of three textual connections:

- Text-to-Text
- Text-to-Self
- Text-to-World

These connections help children develop the habit of reading critically and making connections to the world around them.

Key Features

- Fully aligned with the Common Core State Standards
- Beautifully illustrated with fun and educational activities
- Promotes cross-curricular learning and integrated reading instruction
- Phonological awareness and vocabulary building exercises in each chapter
- Age-appropriate instructions and engaging content
- Step-by-step, scaffolded teacher instructions
- CCSS codes for easy reference to the standards covered
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System

Phonics page

The phonics page introduces Phonological Awareness through the phonics that children encounter in the two readings. Children learn the relationship between spoken and written English most effectively when the connection between the two is presented within a literary setting.



## Sidekick

Sidekick contains a variety of fun and easy-to-follow exercises to help children review, apply and practice comprehension, reading, and writing skills.

- Use your Book
- Words and Word Parts
- Phonics and Words
- Comprehension Activities
- Decodable Readers to practice phonemic knowledge in a literary setting
- Handwriting and Writing in Action Exercises
- Language Arts and Grammar



## Ancillaries

### Classroom Ancillary Pack K1 Flash Cards

- Visual Vocabulary
- What's the Story?
- Chant and Sing

### Classroom Ancillary Pack K2 Flash Cards

- Visual Vocabulary
- What's the Story?
- Chant and Sing



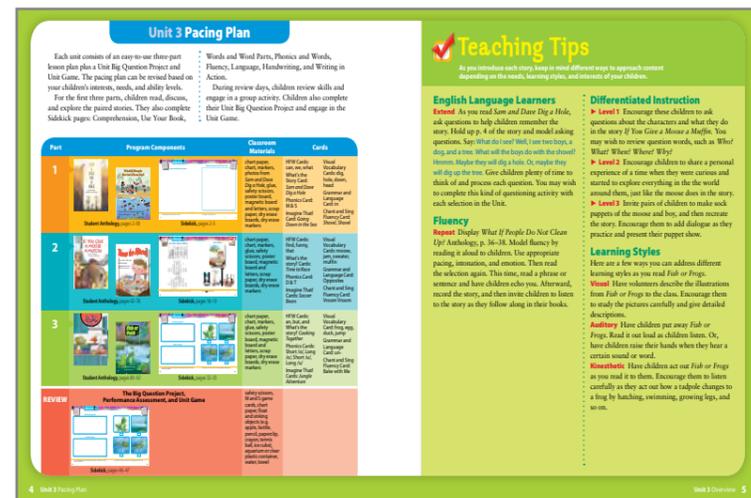
### Classroom Ancillary Supplemental Pack (goes with both K1 & K2) Flash Cards

- Alphabet
- Grammar and Language
- High-Frequency Words
- Numbers
- Phonics

## Teacher Guide

The Alpha K ELA Teacher Guide has been designed to provide teachers with the necessary resources to meet the diverse needs of today's young learners throughout the world.

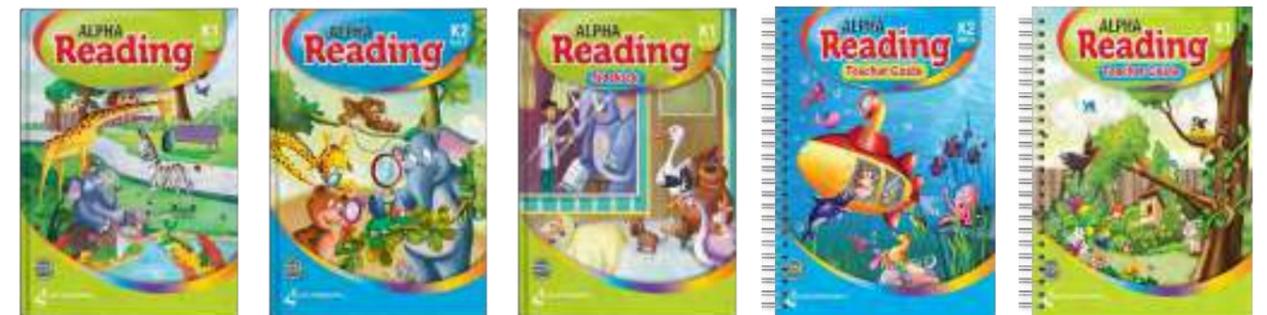
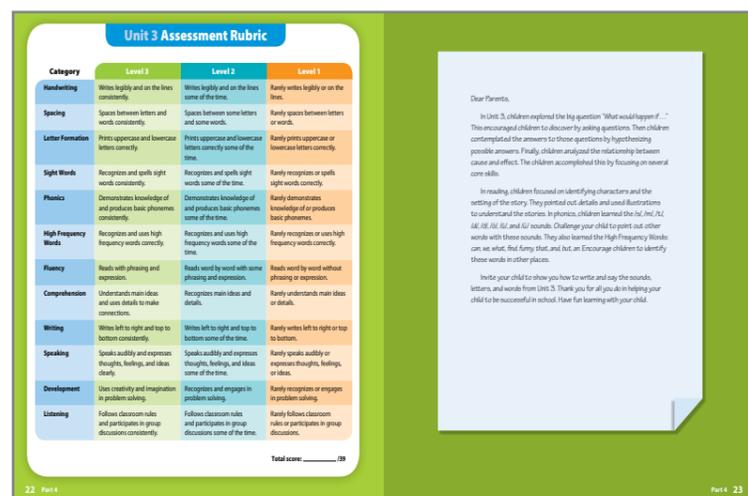
It provides an overview of each unit and includes support for every selection in the Student Book and the practices in the Sidekick.



The Teacher Guide also includes teacher scripts, ELL tips and Activities, Pacing and Lesson Plans, Phonics and Multiple Intelligence Activities guides, CCSS codes, and Assessment Rubrics.

### School to Home Letter:

Parents will get to know what their children are learning and how to encourage them at home.



ISBN details available on Page 41

## Grades 1-5



Alpha English Language Arts (ELA) G1-5 is a comprehensive program designed to provide solid foundational skills while inspiring young students to develop a lifelong joy of reading. The program is fully aligned with Common Core State Standards and proven Reading/Language Arts instructional methods within a structure that provides ease-of-use for teachers, fun and engaging material, and a high level of interest for students.

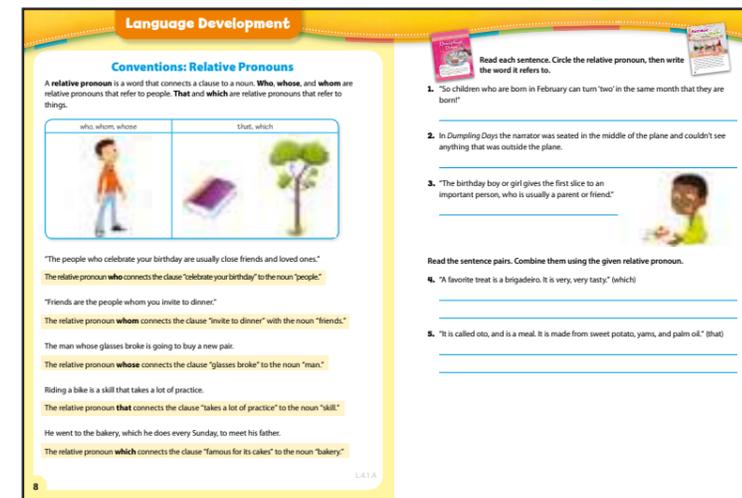
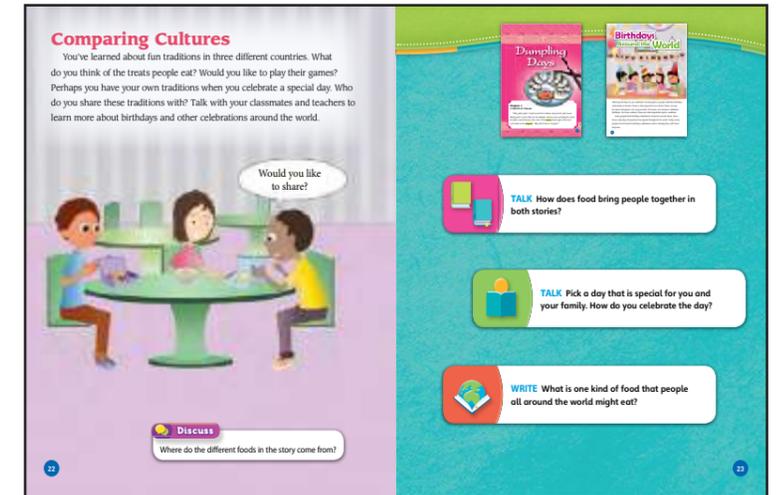
### Key Features

- Features original selections as well as well-known literature from world-famous authors
- Vocabulary, word usage, and writing skills presented in everyday context
- Decodable readers, phonics, phonemic and phonological awareness in grades 1 and 2
- Detailed Teacher Guide with pacing guide and lesson plans
- Support for learners of varying backgrounds and learning styles
- Sample test for standardized test prep
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System



### Student Book

Each grade level has three volumes divided into three units each, containing three paired selections. Selections are either authentic, famous and permissioned titles or original passages, with a blend of fiction and nonfiction. Each paired selection includes grade-appropriate vocabulary and discussion questions.

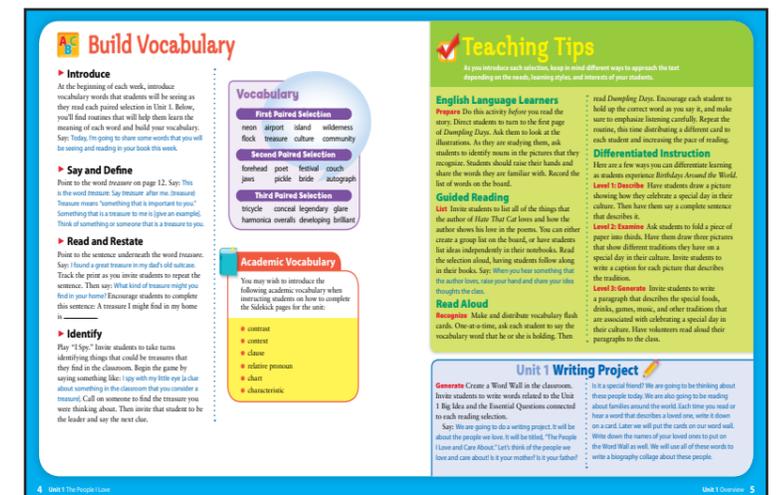


### Sidekick

The Sidekick also has three volumes per grade. It supports the Anthology with targeted instruction in a student-facing, consumable format. Sidekick selections align with Common Core State Standard objectives, allowing teachers to identify and address these key skills: Comprehension, Phonics (at Grades 1 & 2), Craft and Structure, Vocabulary, Language Development, Grammar, and Writing.

### Teacher Guide

A road map for teachers, this resource offers educators and instructors all the support and additional classroom instruction they need to teach the Alpha Reading program successfully. It provides the Answer Keys for all Anthology discussion questions and all Sidekick activities, as well as extra instruction and support for vocabulary, reading comprehension, ELL, differentiated instruction, writing, close reading, and multisensory classroom activities.



## Flash Cards

### Vocabulary Cards

A two-sided card: side A presents the vocabulary words, definitions, words used in a sentence, and an illustration that is presented in each Sidekick lesson; side B provides a learning organizer that helps students understand the vocabulary.

**Adjectives**  
An **adjective** describes a noun or a pronoun. Adjectives tell more about a person, place, or thing. Adjectives can tell how many, what shape, what color, what feeling, or what size.



The following sentences describe the picture. The adjectives are underlined.

- There are a few fish in the round bowl.
- The fish are blue.
- Feeding the fish makes the boy happy.
- The pieces of food are tiny.

**Adverbs**  
An **adverb** is a word that tells something about a verb.  
Some adverbs tell about how something happens. These adverbs usually end in -ly.

- Alice quietly whispers to her sister.
- Eric sweeps the dirty floor quickly.

Some adverbs tell when or where something happens. These adverbs don't usually end in -ly.

- Malik often brushes her sister's hair.
- The boys should dig the hole here.

The chart below shows examples of adverbs.

How?	When?	Where?
quickly	today	everywhere
slowly	early	outside
happily	late	sometimes
		there

### Craft and Structure Cards

A two-sided card: side A provides an explanation of skills presented in each Sidekick lesson; side B provides a question or graphic organizer to help students think critically about the skills.

**commands: orders**  
The words below are synonyms—words that have similar meanings. Use a separate sheet of paper to list the synonyms in order of weakest to strongest. Compare your list with a partner's. Discuss why you chose the order you did.




**challenge**

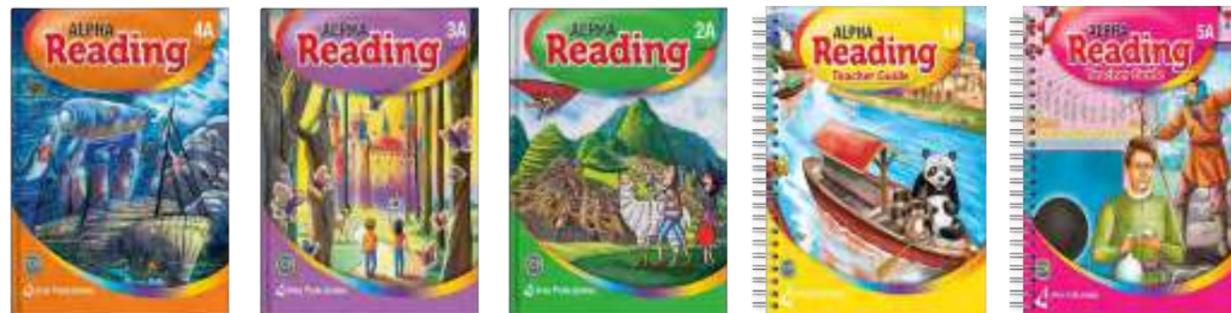
It can be a **challenge** to score a goal in soccer.

### Grammar and Language Skills Cards

A two-sided card: side A identifies and defines the concept introduced in each Sidekick lesson; side B provides a question, task, and/or graphic organizer to help students think critically about the concept.

## Assessments

On eAlpha, downloadable and editable assessments are provided that align to Alpha Reading's content and the CCSS for ELA. For each unit, there is a comprehensive Unit Test and Quizzes for each pair of selections that assess students' understanding of the reading, vocabulary, language, and writing skills covered in their Student Books and Sidekicks.



ISBN details available on Page 42

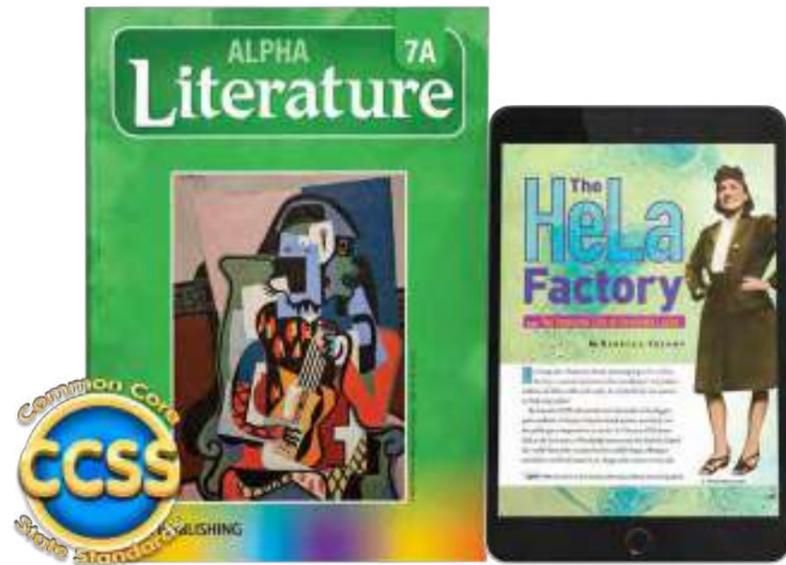
# ELT

At Alpha Publishing, we produce a wide range of English Language teaching and learning materials for students and teachers, as well as resources aimed at helping companies and employees seeking to upskill their ability in English. Our resources are specially adapted to be culturally appropriate and relevant while maintaining the strict standards of the Common European Framework of Reference.

[www.alphapublishing.com/elt](http://www.alphapublishing.com/elt)



Grades 6-12



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content
- Audio (Text to Speech)

Alpha Literature provides up-to-date pedagogy and instruction in English Language Arts (ELA) with a focus on Literature and Informational Texts. The program follows the Common Core State Standards (CCSS) for English Language Arts and Literacy.

Student Anthology

The Literature Selections feature award-winning authors from around the world with a vast array of classic and contemporary literature in a variety of genres, illustrated with visually appealing photography, illustrations, and images of fine art. The stand-alone and paired text selections in each unit give students multiple opportunities for in-depth literary analysis.

Featured in every selection:

- Background and Close Reading Focus
- Close Reading Questions to support literary analysis
- Critical Viewing Questions
- Discussion activities that extend beyond the literature
- Critical Reading question bank, which presents higher-order-thinking questions requiring students to go beyond basic recall and comprehension to analyze, interpret, and evaluate the literature



Key Features

- Integrated English Language Arts program for students around the world
- Globally focused, featuring multi-genre classics and contemporary literature with regional references
- Fully aligned with the Common Core State Standards
- Comprehensive skills instruction and practice in Reading, Writing, Language Comprehension (Vocabulary and Grammar), and Speaking and Listening
- Teacher Guide with pacing guidelines, innovative teaching tips and strategies for differentiated instruction
- Each grade level includes six multi-genre units, with an engaging theme and a thought-provoking Essential Question
- Beautiful fine art and illustrations pair perfectly with the text
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System

Award-Winning and Best-Selling Titles

Award-winners:

- The Breadwinner by Deborah Ellis
- Words in the Dust by Trent Reedy
- Damascus Nights by Rafik Schami

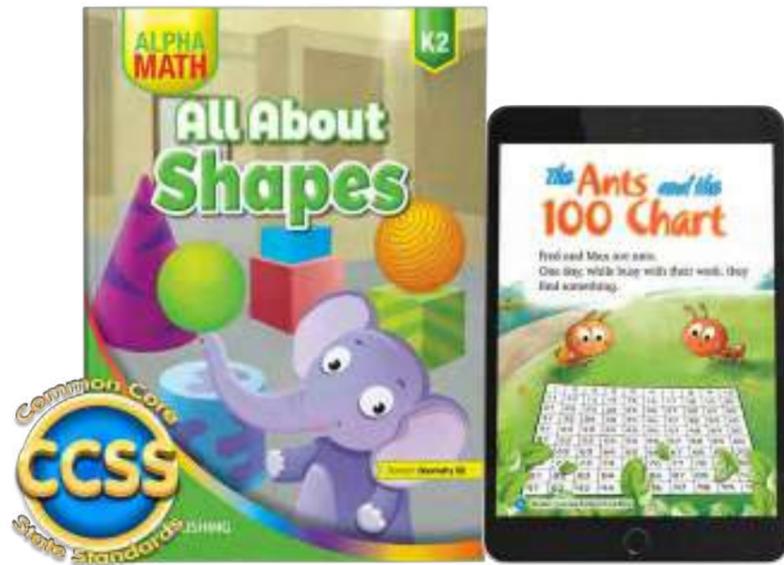
Best-sellers:

- A Long Walk to Water by Linda Sue Park
- I Am Malala by Malala Yousafzai
- Born on a Blue Day by Daniel Tammet
- Cinder by Melissa Meyer
- The Bad Beginning (A Series of Unfortunate Events, Book 1) by Lemony Snicket
- The Joy Luck Club by Amy Tan
- Cleopatra: A Life by Stacy Schiff
- Into Thin Air by John Krakauer
- The Martian by Andy Weir
- The Boy Who Harnessed the Wind by William Kamkwamba
- The Immortal Life of Henrietta Lacks by Rebecca Skloot





Grades K1 & K2



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content

Alpha Math for Grades K1 and K2 is a comprehensive, CCSS-based approach to teaching math readiness skills to children in their first and second years of Kindergarten.

K1 is made up of four volumes that each cover one of the four K1 CCSS math domains. They teach numbers, addition and subtraction, size of objects, and shapes.

K2 has five volumes that each cover one of the five K2 CCSS math domains. They continue teaching numbers and delve deeper into addition and subtraction, measurements, and identification of shapes.

Student Book

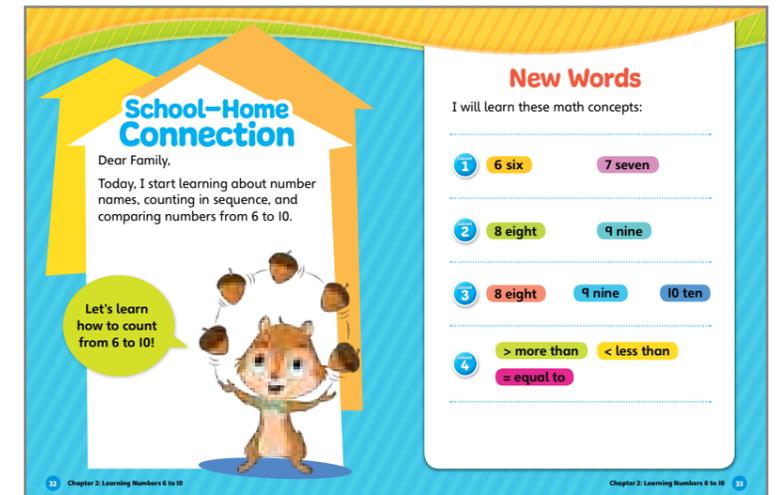
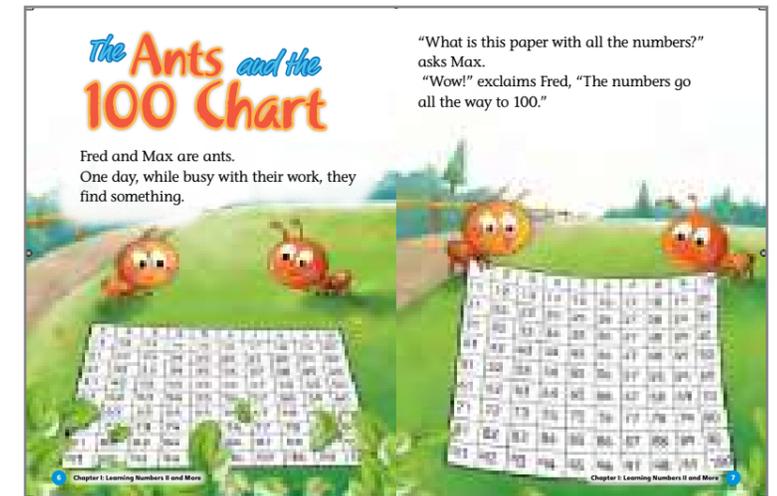
The colorful and beautifully illustrated Student Books are based on the domains of CCSS. Alpha Kindergarten Math is presented in individual volumes for:

- **Numbers 0 through 10**  
(Domain: Counting and Cardinality)
- **Adding and Subtracting**  
(Domain: Operations and Algebraic Thinking)
- **Big or Small, Short or Tall?**  
(Domain: Measurement and Data)
- **All About Shapes**  
(Domain: Geometry)

with

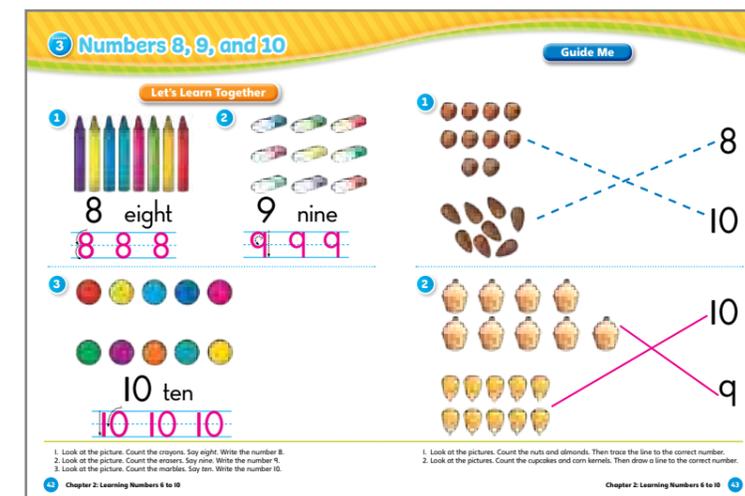
- **Numbers Past 10**  
(Domain: Number & Operations in Base Ten) added in K2

The volumes are purposely not numbered to allow the teacher to decide the order of topics. The organization of volumes according to CCSS domains provides great flexibility.



Key Features

- One Common Core math domain per volume
- Opportunity to connect math instruction to themes and other subjects
- **Math flash cards for enriched learning experience**
- Exercises and tips to support School-Home connection and parental involvement
- Step-by-step, scaffolded teaching instructions to gradually introduce concepts and plan lessons with ease
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System



Practice Book

Each lesson is accompanied by extended in-class activities that children can complete independently or as homework. The easy-to-follow and fun practices enhance the concepts learned during the lesson and allow children to explore new ideas at their own pace.

The Practice Book covers all the CCSS domains and contains two pages of additional practice per lesson.

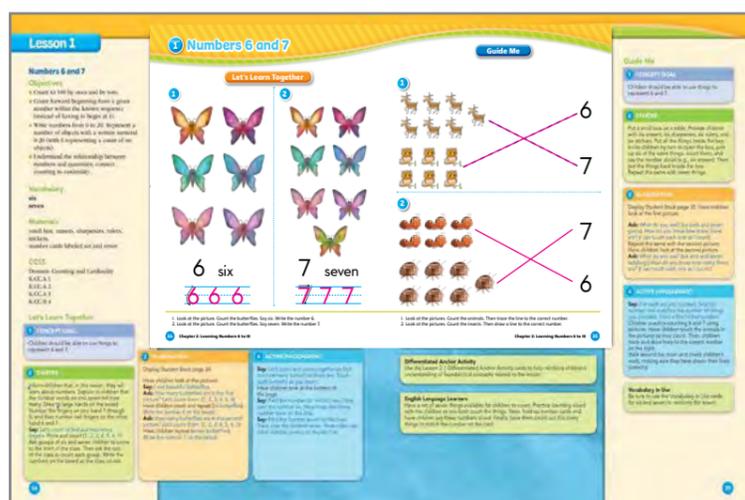
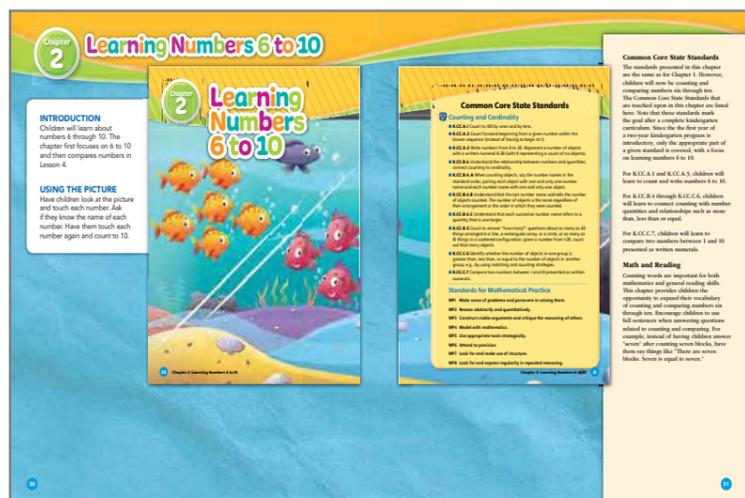


Teacher Guide

The spiral-bound Teacher Guide provides a wealth of background and support information to ensure success in the classroom.

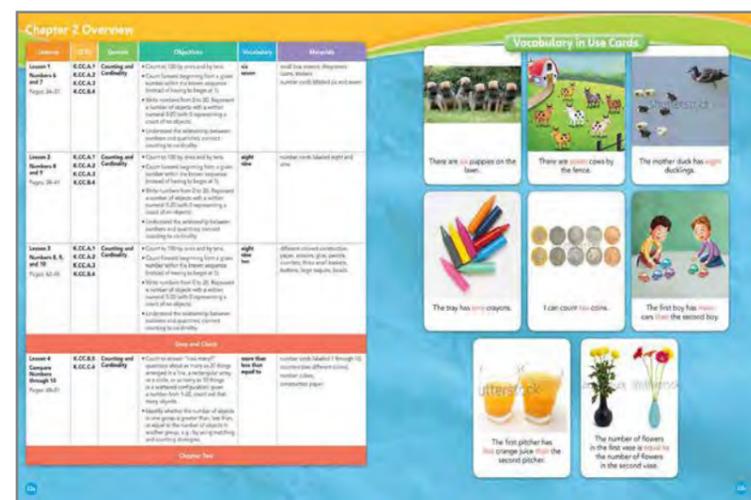
Key features include:

Planners (Unit Plan and Lesson Plan); Chapter Support in the form of the Chapter Introduction; CCSS Guidance; list of suggestions for linking Math concepts and reading; School-Home Connection letter; Instructions for New Words; The Vocabulary In Use Cards; and further links to Math and Reading through the Math Story.



The wrap-around Teacher Guidance for each lesson includes:

Lesson Plan, with the CCSS-based objectives, materials list for the lesson, and vocabulary words; Concept Goals for what children should be able to do after the lesson; and Instructions for Introducing and Elaborating on the lesson concept.



Unique to Alpha K Math is the inclusion of Active Involvement, activities that reinforce the lesson concept through some type of movement or engagement for children, and instruction for supporting English Language Learners.

Ancillaries

Differentiated Anchor Activity Cards

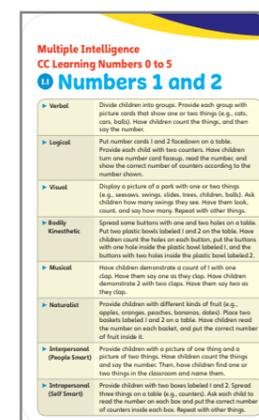
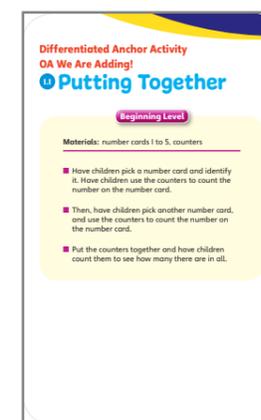
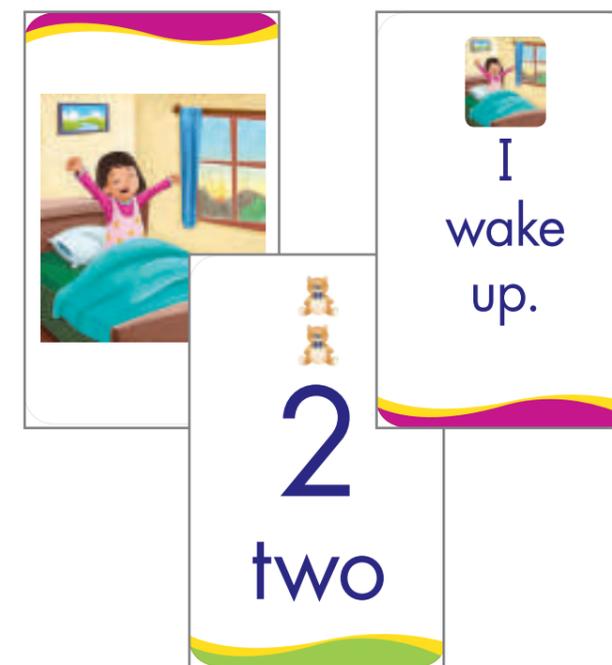
Three fun differentiated activities that open each lesson and provide a preview of concepts covered within each volume.

Multiple Intelligences Cards

Suggestions for accommodating different learning styles in the classroom based on Howard Gardner's Theory of 8 Multiple Intelligences.

Exit Cards

An end-of-lesson activity that can be used as a quick formative assessment to check students' understanding.



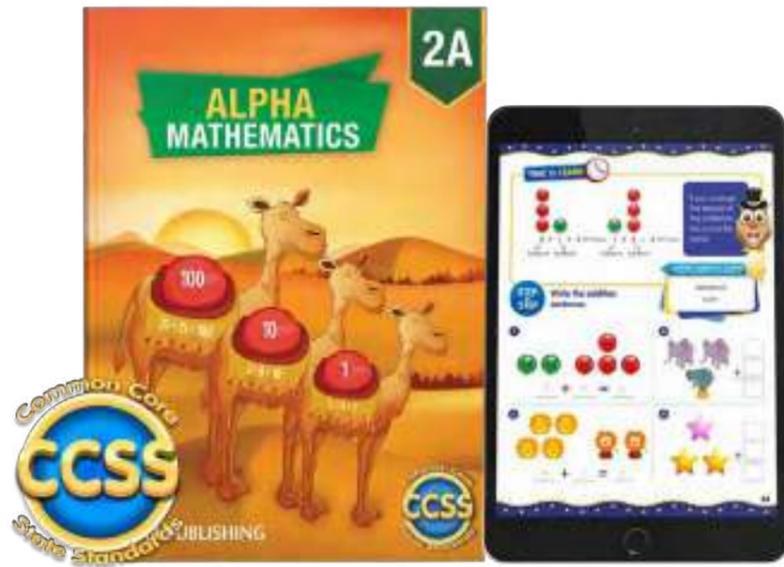
Supplemental Cards

A set of useful and colorful supplementary flash cards are available for use at the teacher's discretion. They include:

- Vocabulary In Use Cards - K1
- Vocabulary In Use Cards - K2
- Math Symbol Cards - K2
- Numbers Only Flash Cards (1-100) - K1 & K2
- Number Cards with Images (1-10, multiple sets) - K1 & K2
- Number Flash Cards (1-10, 20, 30, 40, 50, 60, 70, 80, 90, 100) - K1 & K2
- Daily Routine Flash Cards - K1 & K2

ISBN details available on Page 44

## Grades 1-5



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content

Alpha Mathematics Grades 1–5 promotes the importance of mathematical literacy and differentiated learning. Teachers can personalize their instructional approach to how each student learns most effectively by using the fun and engaging Multiple Intelligence Activities, Differentiated Practices, Multiple Mathematical Strategies, Games, Projects, and Activities.

The problem-solving questions in Alpha Math require students to justify their answers in complete sentences, thus reinforcing Math Literacy. Each chapter contains a problem-solving lesson that revolves entirely around problem-solving skills and strategies.

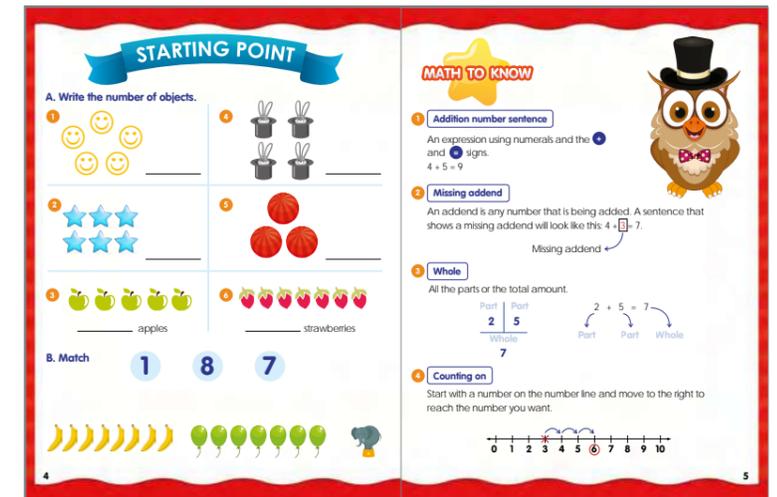
### Key Features

- Fully aligned with the Common Core State Standards (CCSS) and features a Cross-Curricular focus
- Designed to help students develop critical-thinking and problem-solving skills
- Hands-on activities and Practical applications of math in the real world
- Promotes the importance of mathematical literacy and differentiated learning
- Detailed Teacher Guide for instruction planning and monitoring student progress
- Designed to appeal to all learners with colorful and engaging content that respects and observes the local culture
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System

### Student Book

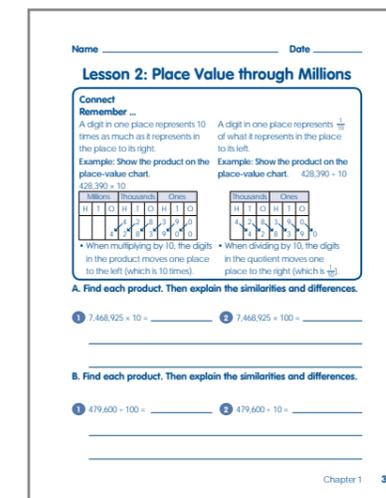
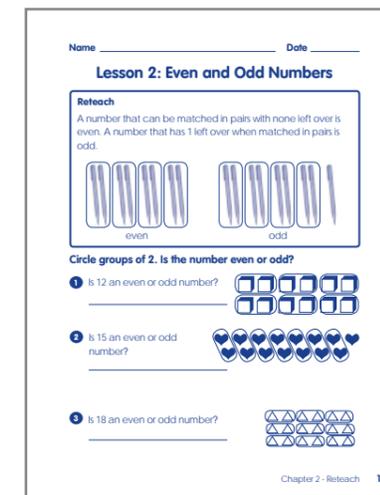
Structured around the eight CCSS standards for mathematical practices, the books, 2 volumes per grade, are divided into color-coded chapters, based on the five domains of the CCSS.

Students journey through the chapters from Starting Point to the Final Chapter Test through lessons filled with engaging instructions, visual models, and activities to improve math language skills.



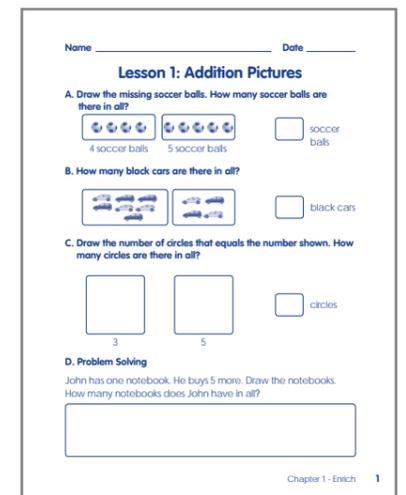
### Differentiated Practice Books

**Reteach Practice Book** provides extra support for students who have difficulty understanding the lesson.



**On-Level Practice Book** complements the Student Book and provides extra problems and questions that reinforce what the students learned in class.

**Enrich Practice Book** provides challenging questions and problems for the above-level students.



### COMMON CORE STATE STANDARDS ACROSS THE GRADES

#### Grade One

**Number & Operations in Base Ten**

**1.NBT.A** Add within 100, including adding a two-digit number and a one-digit number or adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to solve problems. Use the strategy of breaking a problem into simpler parts to solve a problem.

#### Grade Two

**Number & Operations in Base Ten**

**2.NBT.A** Add and subtract within 100, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to solve problems. Use the strategy of breaking a problem into simpler parts to solve a problem.

#### Grade Three

**Number & Operations in Base Ten**

**3.NBT.A** Fluently add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction to solve problems. Use the strategy of breaking a problem into simpler parts to solve a problem.

### CHAPTER ORGANIZER

Lesson	Objective	Vocabulary	Material	CCSS	Mathematical Practices
Lesson 1	Add hundreds.	hundreds	place, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.4, MP.8
Lesson 2	Add 10 and 100 to three-digit numbers mentally.	ten, digit, hundreds	base, 100 blocks	2.NBT.B.8	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 3	Add two 3-digit numbers.	add, ones, tens, hundreds	place, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 4	Add two 3-digit numbers with regrouping using concrete models or drawings and strategies based on place value.	regroup	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 5	Strategies for Adding	expanded form	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 6	Subtract hundreds.	minus, dozens	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 7	Subtract 10 and 100 from three-digit numbers mentally.	hundreds, tens, ones, base	base, 100 blocks, chart	2.NBT.B.8	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 8	Subtract two 3-digit numbers using concrete models or drawings and strategies based on place value.	hundreds, ones, tens, ones, base	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 9	Subtract two 3-digit numbers with regrouping using concrete models or drawings and strategies based on place value.	regroup	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 10	Strategies for Subtracting	expanded form	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 11	Relationship between Addition and Subtraction	addition, subtraction, number cube	base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8
Lesson 12	Problem Solving Strategies		base, 100 blocks, chart	2.NBT.B.1	MP.1, MP.2, MP.3, MP.4, MP.8

## Teacher Guide

The comprehensive Teacher Guide contains reference materials such as the Doing Math guide, Yearly Plan, detailed Scope and Sequence, grade appropriate Common Core State Standards, the alignment chart to CCSS and the Standards for Mathematical Practice.

## Anchor Activities

Anchor Activities provide a quick and engaging way to get students focused and prime them for the lesson. Students can be given the activities to work on at the beginning of class as soon as they are ready to learn. Every activity will help to gauge student readiness for the lesson and can be used as a differentiation tool.

### Grade 2 • Chapter 7 LESSON 7

#### Anchor Activity

##### Centimeters

Estimate. Measure using a centimeter ruler.

Estimate: \_\_\_\_\_ centimeters

Actual measurement: \_\_\_\_\_ centimeters

### Grade 2 • Chapter 7 LESSON 10

#### Anchor Activity

##### Comparing Metric Lengths

Use a centimeter ruler to measure and compare the lengths of different pictures to determine which picture is longer than the other. Circle the longer picture.

1. \_\_\_\_\_ centimeters

2. \_\_\_\_\_ centimeters

## Unique to Alpha Math is the

- Vocabulary Builder
- Sharpen Focus sections, providing background information and extra resources to present the lesson concept
- Fast Track Lesson Plan

### Lesson Plan L2 - Place Value through Millions

**Learning Goal**

Use the vocabulary words to introduce the new math concepts and language to students.

**Exit Ticket**

Have students use the Exit Ticket to explain their work to their partner.

**Check**

Use the Vocabulary Check to check that students have learned the lesson by using them in the Closure activity in the Student Book.

#### 1-2 Place Value through Millions

##### WARM-UP

**On Level**

**Reteach**

**Enrich**

### Grade 1 • Chapter 7 LESSON 3

#### Exit Activity

##### Nonstandard Units of Length

The length of the \$1 bill is \_\_\_\_\_ toy cars.

The length of the spoon is \_\_\_\_\_ paper clips.

### Grade 1 • Chapter 7 LESSON 6

#### Multiple Intelligence Activity

##### Hours and Half Hours

Use your arms as the hands of a clock. Show your partner the time given. Then draw the time on the clock.

Daria eats at 1:30

Abdel leaves for school at 7:30

Talitha goes to the park at 3:30

Jackson cleans his room at 5:00

## Exit Activities

Exit Activities provide a quick spot check of students' understanding at the end of the lesson. This can be given to gauge whether or not students are ready for the lesson quiz.

## Multiple Intelligence Activities

These activities are a fun and engaging way to immerse students with different learning styles in the concepts of each lesson.

### Grade 1 • Chapter 1 LESSON 1

#### Performance Assessment

##### Rounding Rivers

A. The table shows the lengths of some of the longest rivers in the world. Round each length to the nearest 10 and to the nearest 100.

River	Exact Length	Rounded to 10	Rounded to 100
Indus	1,978 miles		
Mekong	2,705 miles		
Niger	2,671 miles		
Volga	2,266 miles		

B. Use the lengths rounded to 100 to order the rivers from shortest to longest. Why was it easier to order the rounded numbers?

C. Using the lengths rounded to 10, estimate how much longer the Mekong River is than the Niger River. Use your knowledge of place value to justify your answer.

D. The length of the Lena river is 2,740 miles when rounded to the nearest 10. What are the least and greatest lengths the river could be? Explain.

### Grade 1 • Chapter 1 LESSON 1

#### Puzzle by Numbers

A. Write the rule for the pattern.

7 12 17 Rule: add \_\_\_\_\_

B. The next 16 numbers in the pattern are shown on the puzzle pieces below. Put the pieces in order by the numbers in the pattern. Start at the top left corner with the piece numbered 22. Work from left to right. The puzzle is 4 pieces wide and 4 pieces tall.

C. After you complete the puzzle, describe some features of the pattern.

## Ancillaries

## Assessments Book

In addition to a complete set of formative and summative assessments, this book contains the revolutionary Performance Assessment (non-traditional summative assessment) that will track student achievement of each standard required by the CCSS for a given grade level.

## Lesson Plan Book

This offers a complete guide for every step of planning and delivering each lesson: All-in-one information about the resources required, lesson pacing and time; required practices; and procedures. Teachers can use the Lesson Plans in conjunction with the Yearly Plan in the Teacher Guide to align the lesson plans with the school's academic calendar.

### Grade 1 • Chapter 1 LESSON 1

#### LESSON PLAN

**OBJECTIVES**

Children will be able to:

- Add two numbers up to 9 using pictures.
- Solve word problems by adding two numbers up to 9.

**RESOURCES:** Student Book, Anchor Activity, Multiple Intelligence Activity, Exit Activity

**MATERIALS:** marker board, marker, pictures of animals and flowers, pictures of stars, crayons, glue, scissors, Workmat

**WARM-UP:**

Give each child a marker board and marker and tell them to draw 4 squares and 3 circles on the paper. Ask: How many shapes do you have? (7) Write the equation that the picture represents on the board:  $4 + 3 = 7$ . Have children create their boards and tell them to draw 3 squares and 2 rectangles. Ask: How many shapes do you have? (5) Write the equation that the picture represents on the board:  $3 + 2 = 5$ .

**PROCEDURE:**

- Grade children to complete the Starting Point activity.
- Draw a picture on the board of a tree. Place 4 apples on the tree and 3 apples on the ground.
- Ask: How many apples are there? (9) Show children the equation:  $4 + 3 = 9$ .
- Change the picture to 1 apple on the tree and 5 apples on the ground.
- Have a volunteer come up and point to the apples as they add them together.
- Ask: How many apples are there? (6) Show children the equation:  $1 + 5 = 6$ .
- Repeat with a different number of apples.
- Have a volunteer come up and point to the apples as they add them together.
- Work through the Let's Start activity with children.
- Work through the Let's Start activity with children.
- As you grade children through Time to Learn, show them how to use the part-whole model. Explain that by counting the two parts they get the whole.
- Help children follow the Step by Step to use the part-whole model.
- Let children complete the Practice independently. Walk around the room and check for understanding.
- Read the Problem Solving with children. Allow children to complete the problems with a partner.

**CLOSURE:**

Check that children understand the following vocabulary:

- all
- more
- one
- whole

Follow the instructions in the Closure activity. Discuss the answer as a class.

### Grade 1 • Chapter 1 LESSON 2

#### LESSON PLAN

**OBJECTIVES**

Children will be able to:

- Add two numbers up to 9 using the part-whole model.
- Solve word problems by adding two numbers up to 9 using the part-whole model.

**RESOURCES:** Student Book, Anchor Activity, Multiple Intelligence Activity, Exit Activity

**MATERIALS:** part-part-whole mat, counters, paper, colored pencils

**WARM-UP:**

Have 3 boys and 2 girls stand in the front of the room. Ask: How many boys are standing? (3) How many girls are standing? (2) How many children are all standing? (5) Now have 4 children come to the front of the room and stand, and have another 5 children come to the front of the room and sit. Ask: How many children are standing? (9) How many children are sitting? (5) How many children are there in all? (14)

**PROCEDURE:**

- Give each child a part-part-whole mat and two different color counters.
- Tell children to place 2 red counters in the first part box. Tell them to place 2 blue counters in the other part box.
- Show children how to draw the part-part-whole mat on their marker boards.
- Have them fill in the part boxes. They should write 3 in the first box and 2 in the next box.
- Repeat with the following numbers: 4, 2, 3, 2, and 2, 4.
- Now have children place 1 counter in the first part and 3 counters in the second part and fill in the chart on their marker boards.
- There have children count all the counters and write the sum (6) in the whole box.
- As you grade children through Time to Learn, show them how to use the part-part-whole model. Explain that by counting the two parts they get the whole.
- Help children follow the Step by Step to use the part-part-whole model.
- Let children complete the Practice independently. Walk around the room and check for understanding.
- Read the Problem Solving with children. Allow children to complete the problems with a partner.

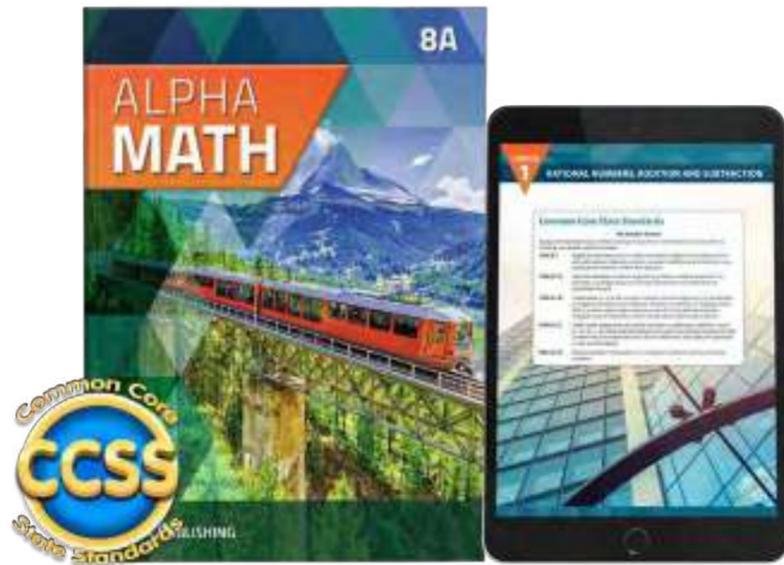
**CLOSURE:**

Check that children understand the following vocabulary:

- take
- part
- one
- whole

Follow the instructions in the Closure activity. Check that children complete the model correctly.

Grades 6-8



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content

Alpha Math Grades 6–8 Middle School continues to extend math beyond the walls of the classroom and builds upon the skills and content covered by Alpha Math Grades 1–5. Its lessons provide a real-world context that engages the mind of the global learner while fulfilling international educational standards.

Alpha Math Grade 6 fully covers the Grade 6 CCSS (Common Core State Standards). Alpha Math Grade 7 is an accelerated Grade 7 course that fully covers the Grade 7 CCSS and includes some Grade 8 standards. Alpha Math Grade 8 covers the remaining Grade 8 CCSS and all Algebra 1 standards.

Key Features

- Fully aligned to CCSS with Cross-Curricular connections to CCSS English Language Arts and the Next Generation Science Standards. Standards are clearly listed throughout the program.
- Hands-on activities, practices, and problem-solving that help students become global learners while developing critical-thinking skills and mathematical literacy
- **Built on the 5E Instructional Model: Engage, Explore, Explain, Elaborate, and Evaluate**
- Differentiated instruction is built into the program through three Practice Books, instructional support in the Teacher Guide, and fun and engaging activities provided for each lesson
- Easy-to-use and customizable program for teachers with robust resources, training, and professional development opportunities
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System

Student Book

The Student Book is the main resource for students. There are two light-weight volumes per grade that contain all the core content that students will complete during class and at home. Each lesson follows the same organized structure to ensure complete coverage of the lesson objective and CCSS.

Students make real-world connections to math through special features in their books that include: Engineering Connections, Math and Science Connections, Math and Art Connections, Math and ELA Connections, Careers in Math, Technology, and Science, and ESL/ELL Strategies.

Calculator Practice



Before students begin the Calculator Practice, demonstrate how a terminating and a non-terminating decimal looks on a calculator by showing the following quotients.

$$5.16 \div 12.9 = 0.4$$

$$85.7 \div 3.3 = 25.969696$$

Have students complete the exercises. Then have them find  $6.4 \times 0.5 = 3.2$  on the calculator. **Ask:** If there are 2 decimal places in the two factors, why is there only 1 place in the product? **The calculator does not show the zero on the end.  $3.2 = 3.20$ .** Remind students how important it is to estimate the product before multiplying. Half of 6 is 3 so the answer needs to be about 3.

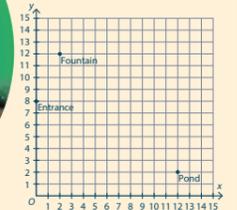
Teacher Guide

The Teacher Guide provides assistance in all phases of the teaching cycle. It complements each page of the Student Book with wrap-around instructional support. Teaching Connections draw the teacher's attention to how the math content connects to other content areas. Robust teacher guidance is also delivered through Teaching Tips, Common Errors, instructions for ESL/ELL support, vocabulary review, and key-by-key calculator instruction.

Math Around Us

Do you know that ...

The Majorelle Garden is in Marrakech, Morocco. It was created by the French painter Jacques Majorelle. It contains exotic trees and plants. There are ponds, waterways, and fountains.



A garden center sells potted plants. A coordinate plane is used as a floor plan for the garden center. What are the coordinate pairs for the entrance, the fountain, and the pond?

**Answer:**  
entrance: (0, 8), fountain (2, 12), pond (12, 2)

Step by Step

Plot these four points on the coordinate grid.

Point Q: (5, 8)      Point R: (8, 10)

Point S: (8, 2)      Point T: (5, 4)

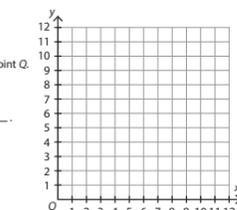
Connect the points in order. Then connect Point T back to Point Q.

The shape is a \_\_\_\_\_.

The line segments \_\_\_\_\_ and \_\_\_\_\_ are parallel.

To go from Point T to Point Q, move \_\_\_\_\_ units \_\_\_\_\_.

To go from Point S to Point T, move 3 units \_\_\_\_\_ and \_\_\_\_\_ units up.



LESSON 1 Graph Inequalities

Standard

**6.EE.B.5** Understand solving an equation or inequality as a process of answering a question which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

**6.EE.B.8** Write an inequality of the form  $x > c$  or  $x < c$  to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form  $x > c$  or  $x < c$  have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

Objective

Write and graph inequalities in one variable, and use substitution to determine whether a value makes an inequality true.

Essential Question

How can you write and graph an inequality?

By the end of this lesson, students should be able to write an inequality from a description given in words, determine which values make an inequality true or false, and graph an inequality on a number line.

Warm-Up

Show students two inequalities:  $2 + 2 < 5$  and  $2 + 2 > 5$ . **Ask:** What do these inequalities say?  $4$  is less than  $5$ .  $4$  is always less than  $5$ ? Write true above the first inequality. Point to the second inequality and rewrite it as  $4 < 5$ . **Ask:** What does this inequality say?  $4$  is greater than  $5$ . **Ask:** Is four ever greater than 5? No. Write false above the second inequality. **Say:** Inequalities with variables work the same way. You can check to see if a number makes an inequality true or false.



Show students an advertisement similar to the one shown. Using the advertisement sale price, follow the format for a discussion. Write these dollar amounts for students: \$2.79, \$2.78, \$2.80, \$8.65, \$1.49. **Ask:** Which dollar amounts could be the price for an item at this sale? \$2.79, \$2.80, \$8.65. **Ask:** Why could \$2.79 be a price for an item? The sign says "starting at". **Say:** \$1.49 and \$2.78 are not sale prices. Why? They are both less than \$2.79.

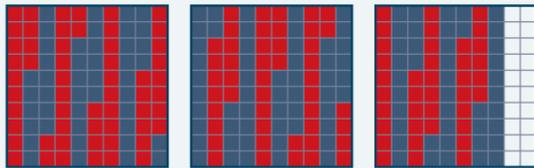
Give each student 5 counters, beans, or other small objects. Write  $x < 4$  on the board. **Ask:** What does the inequality say?  $x$  is less than 4. **Say:** Put less than 4 counters in the bag. **Ask:** How many counters could be in the bag? 0, 1, 2, or 3. Write  $3 < 4$ . **Ask:** Does 3 make the inequality true? **Say:** yes. Write  $0 < 4$ . **Ask:** Does 0 make the inequality true? **Say:** yes. Write  $4.5 < 4$ . **Ask:** Does 4.5 make the inequality true? **Say:** no. Write false above the inequality. Tell students they will learn how to graph inequalities. They will substitute values for a variable and evaluate to see whether the values make an inequality true.

Full Scope & Sequence and CCSS Alignment charts are included. The Lesson Plans, found on eAlpha, complement the Teacher Guide and allow teachers to easily customize the program around the needs of each student, the whole class, and the school calendar.

**Teaching Tips**

For students who may be struggling, have them work through this problem. Help students confirm that the model with three grids shows 2.8 in all. Then they should see and count the 20 groups of 0.14.

Use the hundredths grids below to model  $2.8 \div 0.14$ .



Each group models 14 hundredths.

There are 20 groups.

So  $2.8 \div 0.14 = 20$



**Cross-Curricular Connections**

**GEOGRAPHY** Use ratios to accurately represent actual distances on maps. For example, an inch on a map may represent 50 miles in the real world. Have students find examples of maps in their textbooks or online and show the scale.

**Say:** The scale is a ratio that tells how many miles are represented by each inch or other measurement on the map.

**COMMON ERRORS** Some students may mistakenly multiply or divide each term by a different number when asked to write an equivalent ratio. For example, for the ratio 3:4, students may multiply 3 by 3 and note that the term 3 is multiplied by itself, then multiply the second term by itself also,  $4 \times 4$  to find 9:16 rather than 6:8. Remind students that both quantities in the ratio must be multiplied by the same number to form an equivalent ratio.

**ELL** Help students to understand the phrase *given value*. Have students write the expression  $3x$ . **Say:** You don't know the value of  $x$ . Then tell students that  $x = 5$ . **Say:** I told you the value of  $x$ . Now you know the value of  $x$ . **Ask:** What is the value of  $x$  that I gave you? **Say:** When  $x = 5$ , 5 is the given value of  $x$ .

Name \_\_\_\_\_ Date \_\_\_\_\_

**Lesson 2: Solve Multi-Step Equations**

To solve multi-step equations, first use properties of equality to combine like terms. Then, use properties of equality to perform inverse operations and isolate the variable.

**Example** Solve the equation  $23 + 2(4x - 3) - 5x = 32$ .

$23 + 2(4x - 3) - 5x = 32$	
$23 + 8x - 6 - 5x = 32$	Distributive Property
$8x - 5x + 23 - 6 = 32$	Commutative Property
$3x + 17 = 32$	Combine like terms.
$3x = 15$	Subtraction Property of Equality
$x = 5$	Division Property of Equality

You can check your solution by substituting your result into the original equation.

$23 + 2(4(5) - 3) - 5(5) = 32$   
 $23 + 2(20 - 3) - 25 = 32$   
 $23 + 34 - 25 = 32$   
 $32 = 32$  ✓

$32 = 32$  is a true statement, so  $x = 5$  is the correct solution.

**Example** Solve the equation  $6(5 - 3x) = 78$  in two different ways.

One way	Another way
Use the Distributive Property first.	Use the Division Property of Equality first.
$6(5 - 3x) = 78$	$6(5 - 3x) = 78$
$30 - 18x = 78$	$6 - 3x = 13$
$-18x = 48$	$-3x = 8$
$x = -\frac{48}{18} = -\frac{8}{3}$	$x = -\frac{8}{3}$

**Solve each equation. Show your solution steps and check your solution.**

1.  $3.5 - 0.4x + 2.1 - 0.6x = 4.9$       2.  $\frac{5x - 1}{4} = -9$

**Differentiated Practice Books**

**On-Level Practice Book:** complements the Student Book; for each lesson there are extra problems and questions that reinforce what students learn in class. The On-Level Practice Book also includes Mid-Chapter Quizzes, Multiple-Choice Quizzes, and Chapter Tests.

**Reteach Practice Book:** provides extra support for students who have difficulty understanding the lesson.

**Enrich Practice Book:** provides challenging questions and problems for above-level students.

**Ancillaries & Teacher Resources**

**Anchor Activities**

Anchor Activities are engaging activities that encourage active learning and exploration while reinforcing foundational concepts—a quick and fun opening for each lesson. There are three levels of differentiated activities to meet the students at their own level of readiness for new material. Teacher support for implementation, materials lists, alignment, and procedures are included in the Lesson Plans. These activities are available both as printable and interactive pages on eAlpha.

**Exit Activities**

Exit Activities are short and fun formative assessments to complete at the end of each lesson. They provide the teacher with a quick snapshot of each student's understanding of the lesson. Teacher support for implementation procedures is included in the Lesson Plans. These activities are available both as printable and interactive pages on eAlpha.

Alpha Math Grade 6 Lesson Planner  
 Volume A  
 Chapter 1: Decimals  
 Lessons: 1–9

**Grade 6 Chapter 1 Lesson 1**  
**Add and Subtract Decimals**

**Materials:** play money, hundredths grids

**Time:** 8 minutes

**Participants:** pairs

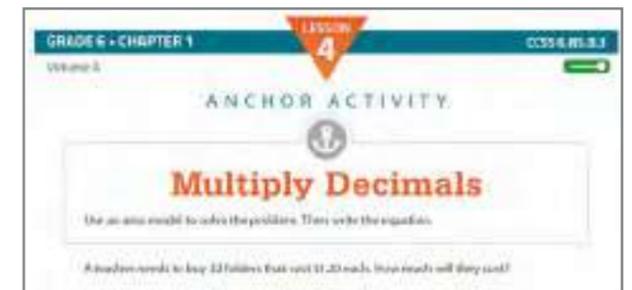
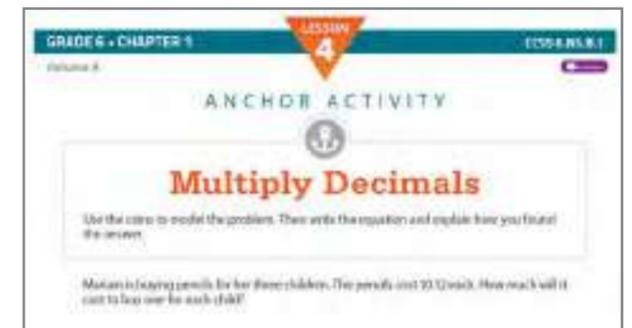
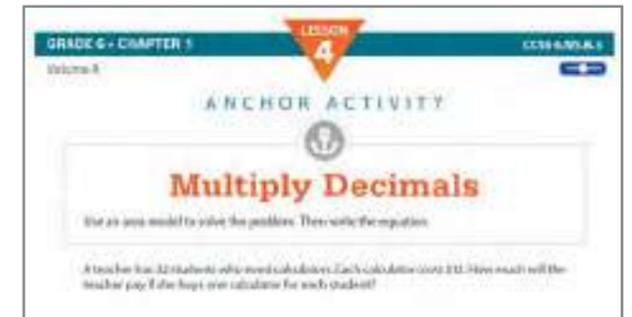
**CCSS:** 6.NS.B.3

**Goal of the Activity** Students add and subtract decimals in hundredths.

**Multiple Intelligences** visual

**Procedure to Follow** Students work with a partner. They use hundredths grids or play money to represent values. Then, they add or subtract the decimals. Students should check their partner's work.

**Closure of the Activity** Be sure students understand how to regroup when adding and subtracting decimals.

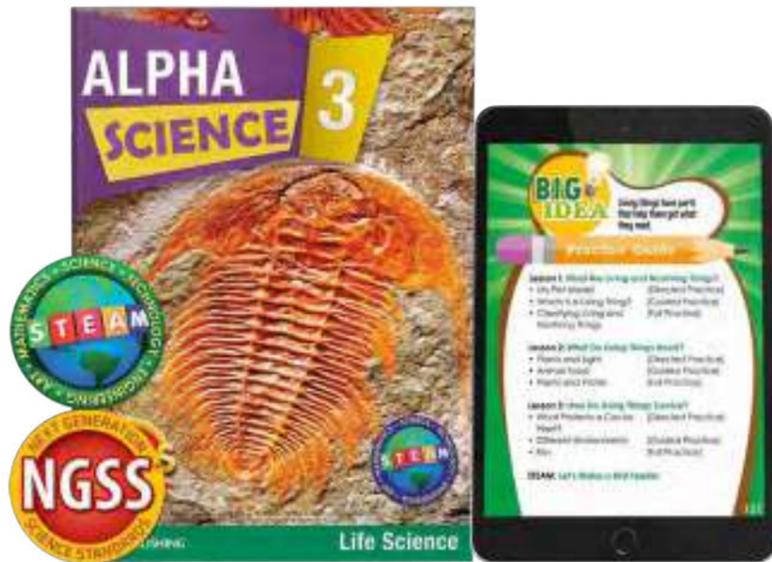


**Lesson Plans**

**Lesson Plans** are available as downloadable, editable, and printable pages on eAlpha. They contain pacing, materials lists, vocabulary, preparation tips, procedures for the Anchor and Exit Activities, the 5Es throughout each lesson, a lesson closure, lesson extensions, and assessment information. A Yearly Pacing Guide is provided for each grade level.

ISBN details available on Page 45

Grades 1-5



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content

Alpha Science has four volumes each based on one of four NGSS domains: Science, Engineering & Technology; Life Science; Earth & Space Science; and Physical Science. Teachers can select the order in which they teach the domains. Each NGSS domain has its color-coded volume with vibrant visuals. Each lesson contains three practices that move from the Directed Practice (teacher guided) to the Guided Practice (a bit more student driven) to the Full Practice (fully student-driven learning). At the end of each lesson, students will have a deep understanding of the lesson's objective and content.

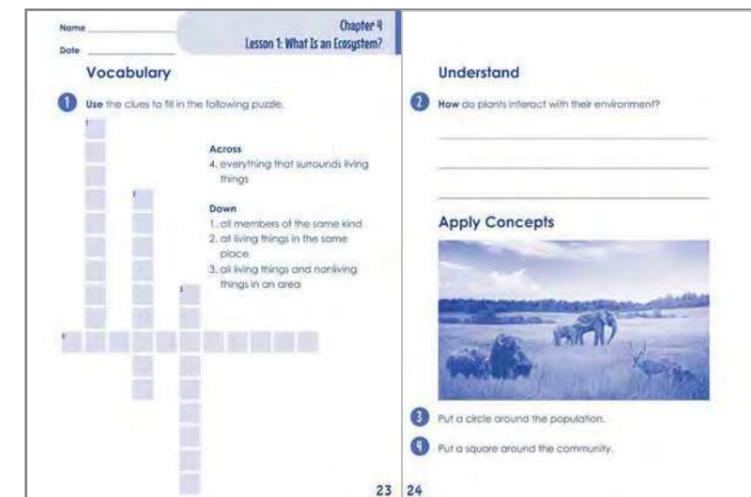
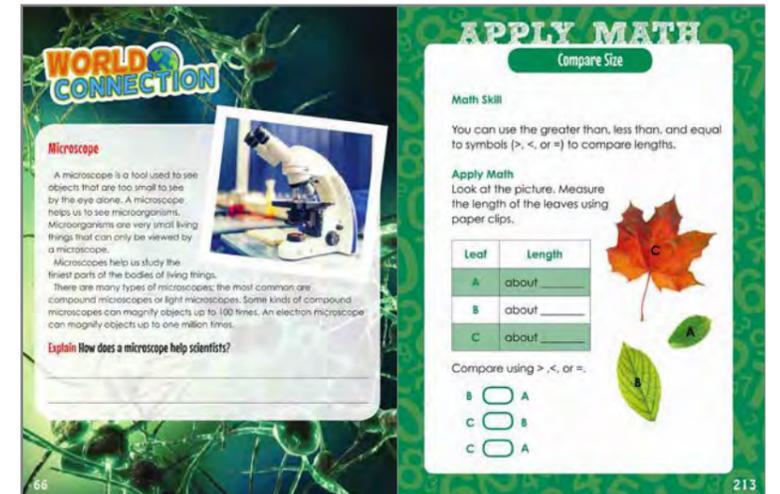
Key Features

- Based on Next Generation Science Standards
- Consumable Student Book & Practice Book
- NGSS performance expectations are presented through activities throughout the lessons
- **Scaffolded STEAM activity after every chapter**
- Differentiated ELL activities
- **Each lesson is based on the 5E Instructional Model**
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- **Available both online and offline on eAlpha, your dynamic and interactive Learning Management System**



Student Book

Each NGSS domain based book has its color-coded volume with vibrant visuals. The books contain clearly structured chapters and lessons that integrate the best science practices, crosscutting concepts and disciplinary core ideas, key connections, and applied math.

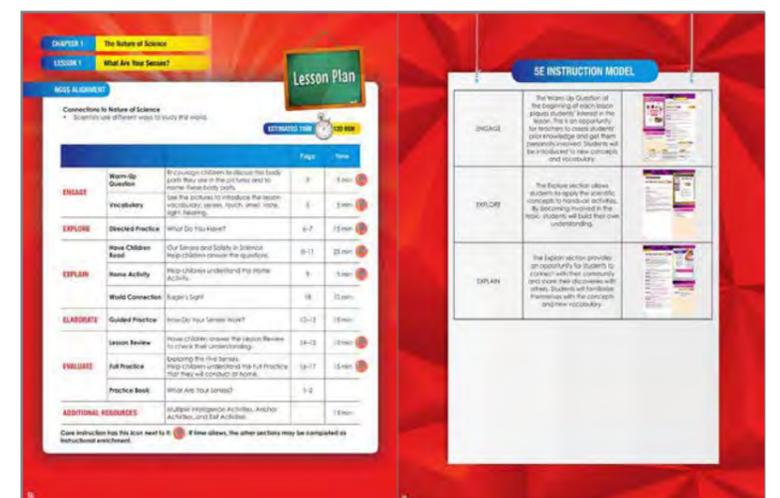


Practice Book

Check the students' understanding of what they have learned and whether they can apply it in practice.

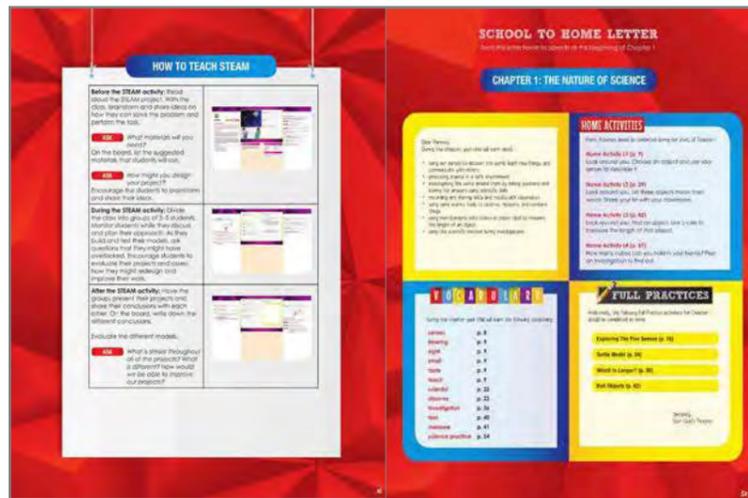
Teacher Guide

The comprehensive Teacher Guide contains reference materials, such as the 5E Instructional Model, Scaffolded Practice Guide, STEAM teaching guide, detailed Scope and Sequence, Yearly Plan, Materials List and the alignment to NGSS.



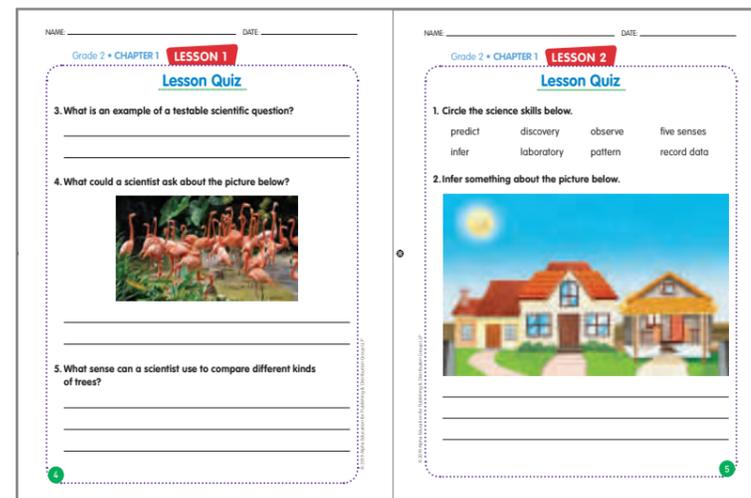
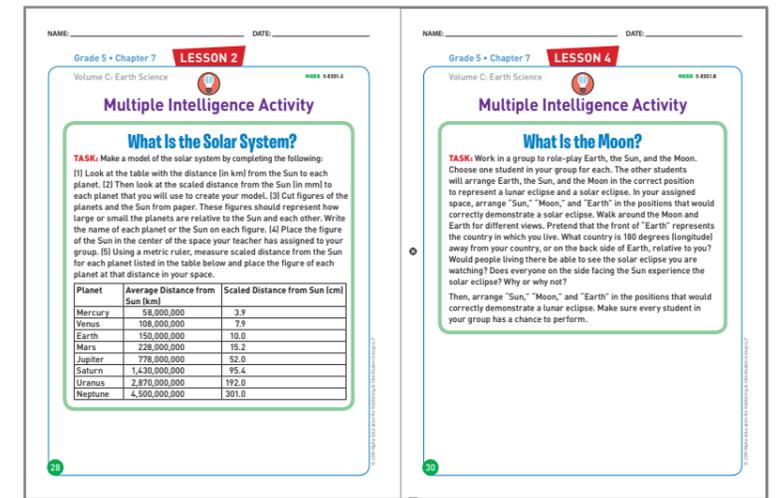
The Teacher Resources sections outline all Student Book and Practice Book Activities, including Assessments, ELL references and the use of online resources.

The School to Home Letter provides a snapshot of what the students will be learning in the upcoming chapter and extends the learning environment through encouraging parental involvement.



Multiple Intelligence Activities

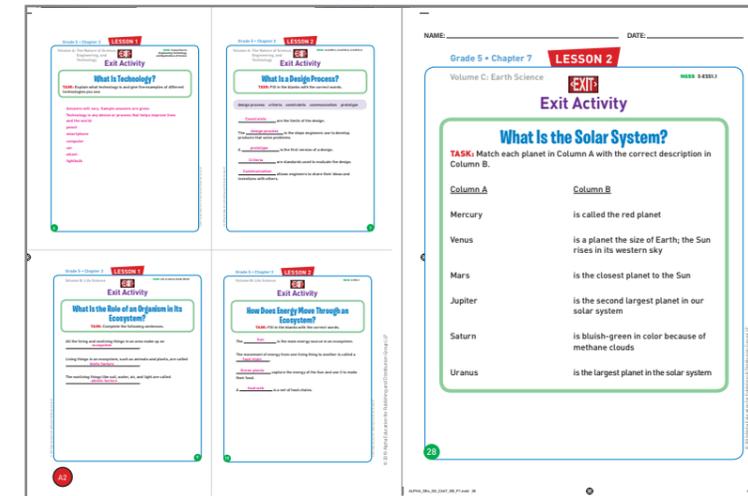
Multiple Intelligence Activities focus on the main science concepts of the lesson and aim to help students with different abilities and learning styles engage in the learning process. Each activity hits at least one of the eight different types of intelligence outlined by Howard Gardner's Theory of 8 Multiple Intelligences. By the end of the chapter, all intelligences will have been stimulated.



Ancillaries

Assessment Book

The Assessment Book is designed to support the NGSS vision of accurately measuring three-dimensional science learning. It contains a comprehensive set of summative assessments that provide the teacher with a complete picture of student progress.

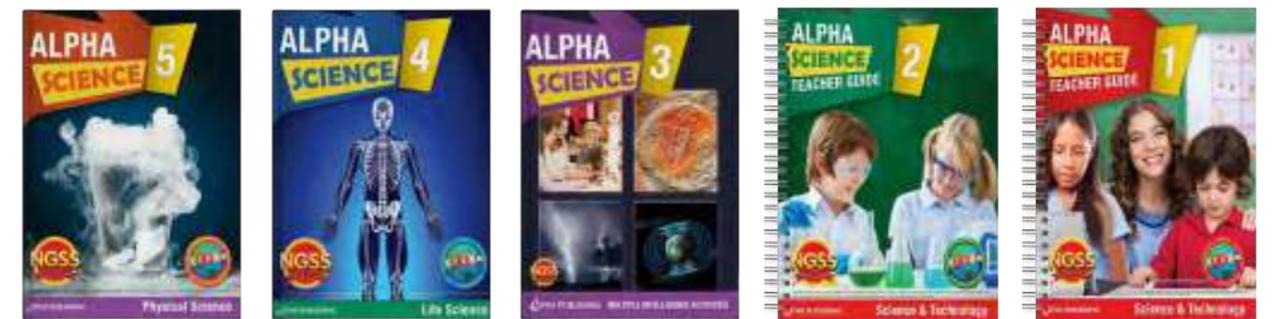
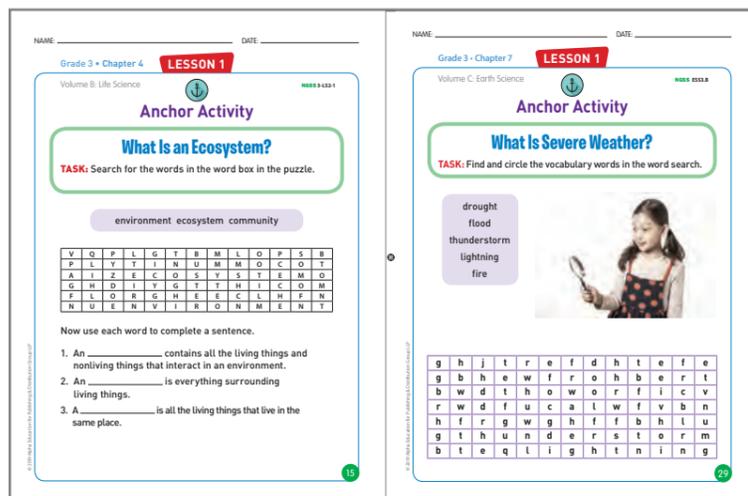


Exit Activities

Exit Activities are used as informal assessments at the end of each class or activity that help the teacher gauge students' understanding of concepts covered during the lesson.

Anchor Activities

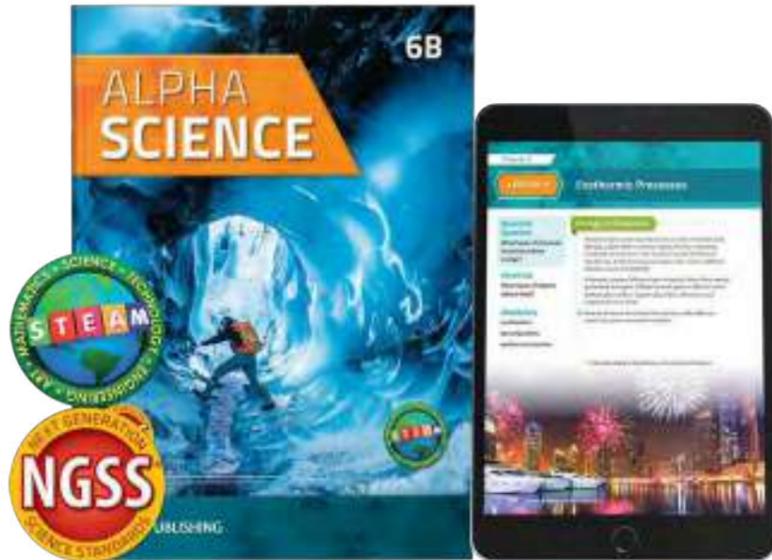
Anchor Activities provide a quick and engaging way to get students focused and prime them for the lesson. Students can be given the activities to work on at the beginning of class as soon as they are ready to learn. The activities will help to gauge student readiness for the lesson and can be used as a differentiation tool.



ISBN details available on Page 46



Grades 6-8



- American English
- Video Clips
- Online Reporting
- Online Resources
- Interactive Content

Alpha Science Grades 6–8 Middle School is a fully integrated and immersive science experience in which the student is surrounded by Life, Earth, Space, Physical Sciences, and Engineering and Technology in all three grades.

Hands-on, student-centered learning is delivered through powerful STEAM laboratories and lessons that achieve all three dimensions of the NGSS (Next Generation Science Standards). The program is written to fully align with the NGSS while also building strong cross-curricular connections.

Alpha Science brings international science standards to the classrooms and homes of students around the world. It introduces students to doing science from a twenty-first century global perspective within a context that makes sense to them.

Key Features

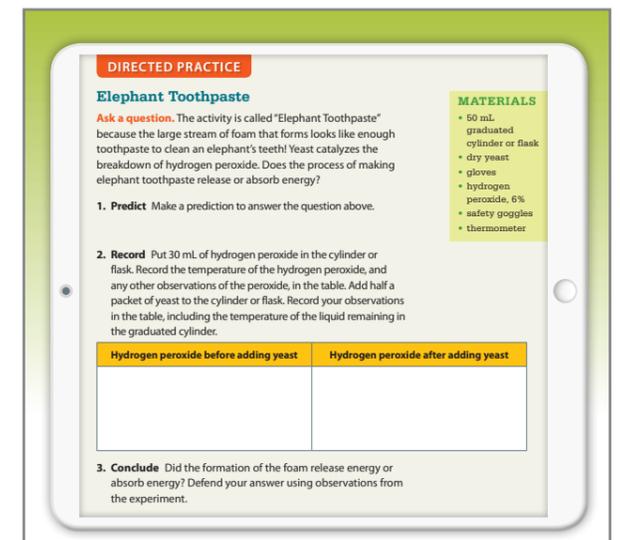
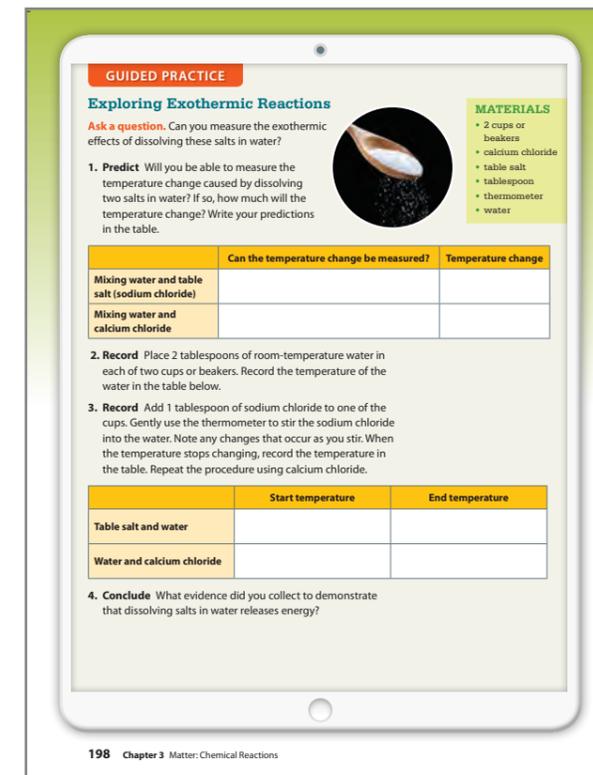
- Fully aligned to the NGSS with Cross-Curricular Connections to CCSS English Language Arts, CCSS Mathematics, engineering, technology, and art. The standards are clearly listed throughout the program.
- Hands-on activities, practices, and STEAM laboratories help students develop critical-thinking skills, science literacy, understanding of experimental design, and the ability to design solutions to real-world problems
- Clearly defined, refined, and revisited Lesson Objectives and Essential Questions
- Built on the 5E Instructional Model: Engage, Explore, Explain, Elaborate, and Evaluate

Other Key Features

- Differentiated instruction is built into the program through the use of multiple representations of concepts, differentiated ELL support, and engaging activities that reinforce each lesson
- Easy-to-use and customizable program for teachers with robust resources: **editable Lesson Plans, Chapter Plans, and Yearly Plans; training and professional development opportunities; and teacher guidance**
- ExamView assessment generator for creating, assigning, and scoring tests, quizzes, and more
- Available both online and offline on eAlpha, your dynamic and interactive Learning Management System

Student Book

The Student Book is the main resource for students. There are two light-weight volumes per grade that contain all the core content, practice, and STEAM laboratories for use in class and at home.



Each lesson follows the same organized structure to fulfill the lesson objective, answer the essential question and achieve the learning standard. Lessons begin with an exploratory Directed Practice, an engaging Guided Practice, and a student-driven Full Practice. Students become more confident and willing to take ownership of their learning through this gradual release strategy.

Students make real-world connections to science through special features in their books that include: Engineering Connections, Science and Math Connections, Science and Art Connections, Science and ELA Connections, Careers in Science, Technology, and Math, ESL/ELL Strategies, and Calculator Activities.

Teacher Guide

The Teacher Guide provides assistance in all phases of the teaching cycle. It complements each page of the Student Book with wrap-around instructional support.

Teaching Connections draw the teacher’s attention to how the science content connects to other content areas. Robust teacher guidance is also delivered through Teaching Tips, ideas for differentiation, instructions for ESL/ELL support, vocabulary review, and cross-curricular connection.

Full Scope & Sequence and NGSS Alignment charts are included. The Lesson Plans, found on eAlpha, complement the Teacher Guide and allow teachers to easily customize the program around the needs of each student, the whole class, and the school calendar.

Calculator Activity

Write the formula shown below on the board or a large sheet of paper.

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

**Say:** The distance between the Sun and Earth is 150,000,000 kilometers. The speed of light is 300,000 kilometers per second. **Ask:** How long does it take sunlight to reach Earth? (500 seconds)

**Ask:** How long does it take sunlight to reach Earth, in minutes? (HINT: Divide by 60 to convert seconds to minutes.) (8.3333, or  $8\frac{1}{3}$  minutes)

Technology Activity

The invention of the electron microscope gave scientists the ability to see atoms for the very first time. Although scientists could prove that atoms existed, no one had been able to actually see them.

Have students think about technology advances that have occurred during their lifetime. Ask students to choose one device, such as a cell phone, and write how the device has changed. Students should focus on the features of the device and how the device has changed how they communicate, for example.

Science and Art Connections

If students struggle to draw their modified designs, show them the Drawing Dictionary graphic organizer on page TR15 of this Teacher Guide. This page supports instruction regarding how to draw a model or other picture using simple shapes and symbols.

Engineering Connections

Students from around the United Arab Emirates can take part in the Formula One STEM Challenge. Teams of students from across the UAE design, build, and race model cars. Have students do online research about this event. Have students focus on the engineering challenges students face in designing and building cars that will race around a 20-meter track. Encourage students to share their findings.

ELL Activity

Have students read the hypothesis and conclusion in *Draw a Conclusion*. Then ask them to identify the question the scientists wanted to ask.

**Beginning:** Ask students to identify what scientists wanted to ask by using simple phrases.

**Intermediate:** Ask students to write the questions that scientists wanted to ask.

**Advanced:** Ask students to write the questions that scientists wanted to ask and explain how the hypothesis and the conclusion are related.

Practice Book

The Practice Book complements the Student Book; for each lesson there are extra problems and questions that reinforce what students learn in class and refine scientific skills.

ISBN details available on Page 46

Ancillaries & Teacher Resources

Anchor Activities

Anchor Activities are engaging activities that encourage active learning and exploration while reinforcing foundational concepts—a quick and fun opening for each lesson. There are three levels of differentiated activities to meet the students at their own level of readiness for new material. Teacher support for implementation, materials lists, alignment, and procedures are included in the Lesson Plans. These activities are available both as printable and interactive pages on eAlpha.

GRADE 6 • CHAPTER 9 LESSON 3 NGSS MS-ESS2-3  
Volume B

ANCHOR ACTIVITY

**Plate Tectonics**

**Procedure**

- Imagine a tunnel passing through the center of Earth.
- Draw a picture of what you think you would see if you look through the tunnel.
- Label any important features on your drawing.

GRADE 6 • CHAPTER 9 LESSON 3 NGSS MS-ESS2-3  
Volume B

ANCHOR ACTIVITY

**Plate Tectonics**

If you could drain the oceans, what do you think the ocean floor would look like?

**Procedure**

- Draw a picture of what you think you would see.
- Label any important features on your drawing.

GRADE 6 • CHAPTER 9 LESSON 3 NGSS MS-ESS2-3  
Volume B

ANCHOR ACTIVITY

**Plate Tectonics**

If you could see deep inside Earth, what do you think it would look like...

- where an earthquake happens?
- where a mountain range is located?
- where a deep sea trench is located?

**Procedure**

- Divide your paper into thirds, one part for each location.
- Draw a picture of what you think you would see at each location.
- Label important features on your drawing.

GRADE 6 • CHAPTER 3 LESSON 5 NGSS MS-PS1-6  
Volume A

EXIT ACTIVITY

**Endothermic Processes**

The graph shows the energy movement during an endothermic reaction. Label the parts of the graph using the words below.

Products      Reactants      Energy      Reaction Progress

Exit Activities

Exit Activities are short and fun formative assessments to complete at the end of each lesson. They provide the teacher with a quick snapshot of each student’s understanding of the lesson. Teacher support for implementation procedures is included in the Lesson Plans. These activities are available both as printable and interactive pages on eAlpha.

Lesson Plans

Lesson Plans are available as downloadable, editable, and printable pages on eAlpha. They contain pacing, materials lists, vocabulary, preparation tips, procedures for the Anchor and Exit Activities, the 5Es throughout each lesson, a lesson closure, and lesson extensions. A Yearly Pacing Guide is provided for each grade level.

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