





























































































## McGraw Hill Texas Science Grade 2

- The Teacher’s Guide highlights recurring themes and science and engineering practices (SEPS) for each unit. For example, the materials contain prompts for an Interactive Word Wall, which connects science and engineering vocabulary to the lesson. The materials integrate engineering opportunities into the lessons. The lesson contains Build-It, Apply-It, and Write About It sub-lessons for engineering opportunities.
- The materials provide the teacher with Investigation Connection prompts in each chapter of the Teacher’s eBook. Investigation Connection prompts provide the teacher with strategies for facilitating student-made connections.

Materials provide review and practice of knowledge and skills spiraled throughout the year to support mastery and retention.

- The materials provide review and practice of knowledge and skills within chapters throughout the year. Each grade 2 lesson contains a lesson review on Day 5, with activities like a word wall review, student reflections, and assessment questions. At the end of each chapter, the materials have a digital spotlight with several review and assessment options. Each chapter also offers both online and printed formats for these review-based activities and assessments of skills.
- The materials include intentional practice to support mastery and retention with teacher tips and station options, along with an Interactive World Wall routine that gives students repeated exposure to some vocabulary words.
- For example, in Chapter 1, students design a prototype for a solution to a problem in the Pantry Problem activity. The materials spiral the knowledge and skills later, in Chapter 3, as students apply their learning to complete the Sound Messages activity. To show mastery and retention, students design a prototype for a solution to a problem in the Wind and Water Changes STEM Project.

# McGraw Hill Texas Science Grade 2

## Indicator 8.2

Materials include classroom implementation support for teachers and administrators.

1	Materials provide teacher guidance and recommendations for use of all materials, including text, embedded technology, enrichment activities, research-based instructional strategies, and scaffolds to support and enhance student learning.	M
2	Materials include standards correlations, including cross-content standards, that explain the standards within the context of the grade level.	M
3	Materials include a comprehensive list of all equipment and supplies needed to support instructional activities.	M
4	Materials include guidance for safety practices, including the grade-appropriate use of safety equipment during investigations.	M

### Meets | Score 2/2

The materials meet the criteria for this indicator. Materials include classroom implementation support for teachers and administrators.

Materials provide teacher guidance and recommendations for use of all materials, including text, embedded technology, enrichment activities, research-based instructional strategies, and scaffolds to support and enhance student learning. Materials include standards correlations, including cross-content standards, that explain the standards within the context of the grade level. Materials include a comprehensive list of all equipment and supplies needed to support instructional activities. Materials include guidance for safety practices, including the grade-appropriate use of safety equipment during investigations.

Evidence includes but is not limited to:

Materials provide teacher guidance and recommendations for use of all materials, including text, embedded technology, enrichment activities, research based instructional strategies, and scaffolds to support and enhance student learning.

- Materials provide teacher guidance and recommendations for the use of all materials throughout the text. The materials include overview documents to support teachers in understanding how to use all materials and resources as intended. For example, the Program Overview highlights all of the resources within the program.
- The Teacher eBook: Grade 1 includes a Chapter Resource Snapshot that provides teacher guidance for program-wide differentiation support. This resource displays how to incorporate research-based instructional strategies such as interactive word walls, guided reading, guided writing, and science notebook enrichment opportunities with cross-content connections. For example, in the Teacher eBook, Chapter 7, Lesson 3, Plant Environments and Ecosystems, Day 1 includes a digital spotlight with an embedded video, “Rainy Forest,” to spark curiosity and inspire students to investigate how environments support the plants that live there. Teacher notes are also included to help lead a discussion and guide and help students reflect.
- Grade 1 teacher materials contain a Portable Document Format (PDF) entitled “Supporting All Learners: Equity and Access in Science” that outlines ways to scaffold and support learning for

## McGraw Hill Texas Science Grade 2

all students. It includes instruction suggestions using a Multi-Tiered System of Supports (MTSS) for “supporting students experiencing difficulty with literacy in science and engineering,” as well as “strategies for students with special instructional needs.”

- Additionally, STEAM Stations provide scaffolds to support and enhance student learning and enrichment activities in each grade K chapter. The STEAM activities provide students with various ways to extend the lesson while exploring the concepts. An example can be found in the Science, Technology, Engineering, Arts, and Mathematics (STEAM) Station 3. Lesson 5.1 allows students to use Math, Technology, Art, and Science to extend and enrich their learning.
- The STEAM Stations also include scaffolds, extensions, and strategies for EB/EL students who need language support.

Materials include standards correlations, including cross content standards, that explain the standards within the context of the grade level.

- The materials include science standards correlations by chapter, lessons, and activities in the Teacher eBook and the online correlation guides. For example, the Teacher eBook includes the TEKS aligned in the chapter overview section and the lesson overview.
- Materials include a Cross-Curricular Correlations: Grade 2 guide that shows cross-curricular correlations between Science, ELAR, Fine Arts, Math, and Technology Applications TEKS. This guide identifies where to find correlating lessons, articles, and activities in the student and teacher materials. Within the Teacher eBook, for example, Chapter 5, Lesson 1 from the STEAM Station option includes a connection to mathematics standards, where students are encouraged to create a comic strip using words and pictures to show how mushroom rocks are formed. Additionally, Chapter 6, Patterns in the World STEAM activity, shows the Art and Technology standards that apply to this science activity.
- The Correlation to English Language Proficiency Standards (ELPS) provides an outline of English-language proficiency student expectations. It also shows the cross-curricular language acquisition skills that are addressed in science.

Materials include a comprehensive list of all equipment and supplies needed to support instructional activities.

- Materials include a Chapter Resource Snapshot at the beginning of each chapter in the Teacher eBook: Grade 2. The Chapter Resource Snapshot identifies all instructional resources needed for each chapter lesson.
- Materials include an Investigation Materials List: Grade 2, which downloads as a spreadsheet that lists all equipment and supplies needed to support student investigations. The comprehensive list of materials for each investigation is organized by chapter, title, and lesson number. The materials include beakers, tweezers, rain gauges, thermometers, safety goggles, aquariums or terrariums, measuring items, windsocks, nonstandard measuring items, stream tables, and hand lenses in that resource and in the chapter resource snapshot section at the beginning of the teacher's instructions.
- Additionally, the Plan Your Lesson section includes the list of materials required for the lesson and also has the lesson broken down into days, including pacing for the time required in the lesson.

# McGraw Hill Texas Science Grade 2

Materials include guidance for safety practices, including the grade appropriate use of safety equipment during investigations.

- The materials provide guidance for safety practices and grade-appropriate use of safety equipment during investigations by means of a safety handout. The Tools and Safety Handbook uses grade-appropriate modeling to use safety equipment. For example, in the Tools and Safety handbook for K-2, a description of each piece of equipment is listed, along with a picture followed by a video demonstrating how to use the tool.
- Additionally, the materials contain a safety handout. The handout comprehensively lists and outlines safety symbols and identifies any potential safety hazards. The teacher may also instruct students to use the grade 2 Student eBook, which includes a safety symbols PDF that can be printed or shared digitally.
- A Tools and Safety Handbook is also available in the Student eBook and includes detailed safety instructions and student-friendly images. The Tools and Safety Handbook allows the teacher to display or assign to the students.

# McGraw Hill Texas Science Grade 2

## Indicator 8.3

Materials provide implementation guidance to meet variability in program design and scheduling.

1	Materials support scheduling considerations and include guidance and recommendations on required time for lessons and activities.	M
2	Materials guide strategic implementation without disrupting the sequence of content that must be taught in a specific order following a developmental progression.	M
3	Materials designated for the course are flexible and can be completed in one school year.	M

### Meets | Score 2/2

The materials meet the criteria for this indicator. Materials provide implementation guidance to meet variability in program design and scheduling.

Materials support scheduling considerations and include guidance and recommendations on required time for lessons and activities. Materials guide strategic implementation without disrupting the sequence of content that must be taught in a specific order following a developmental progression. Materials designated for the course are flexible and can be completed in one school year.

Evidence includes but is not limited to:

Materials support scheduling considerations and include guidance and recommendations on required time for lessons and activities.

- In the Teacher eBook: Grade 2, materials include recommendations for the required time of each lesson in the Plan Your Chapter section at the beginning of each chapter. It also notes the time recommended for each activity within that lesson. These time suggestions are written on the lesson pages along with the teacher's instructions.
- Materials break down the daily lesson into a Teach section and an Assess section, and the suggested time is listed in minutes. The grade 2 Pacing Guide shows a "total number of days for 179. As all classrooms and teachers require choice and flexibility, this information is a general guide. The number of days may vary based on options for investigations, use of ELABORATE sections, assigned assessments, and implementation of science, technology, engineering, art, and math (STEAM) Stations, science, technology, engineering, and math (STEM) Projects, and Show What YOU Know activities."
- A disclaimer is found at the bottom of the page, noting it to be a general guide.

Materials guide strategic implementation without disrupting the sequence of content that must be taught in a specific order following a developmental progression.

- Materials include a TEKS at a Glance section at the beginning of each chapter in the Teacher eBook: Grade 2. This chart displays the TEKS taught in each chapter lesson, how they are introduced or taught within each lesson, and recurring themes and concepts.
- The materials do not follow a developmental order but do incorporate the strategic implementation of the process standards. Additionally, the grade 2 Chapter Overview lists the TEKS progression across grade levels.

## McGraw Hill Texas Science Grade 2

- Materials include a TEKS Progression chart in the Chapter Overview at the beginning of each chapter in the Teacher eBook: Grade 2. This chart reviews what students have already learned and illustrates the developmental progression of the standards.

Materials designated for the course are flexible and can be completed in one school year.

- Materials include a Pacing Guide: Grade 2 chart that shows the number of days designated for each chapter in the Teacher eBook: Grade 2. The guide shows the total number of days as 179, allowing flexibility for the teacher throughout the year.
- Materials include Teacher Support STEM Project guides to make investigations more flexible. These guides include a “Short on Time?” section that guides teachers needing more flexibility with time. The grade 2 lesson materials also allow for review at the end of each lesson on Day 5.

# McGraw Hill Texas Science Grade 2

## Indicator 9.1

The visual design of materials is clear and easy to understand.

1	Materials include an appropriate amount of white space and a design that supports and does not distract from student learning.	YES
2	Materials embed age-appropriate pictures and graphics that support student learning and engagement without being visually distracting.	YES
3	Materials include digital components that are free of technical errors.	YES

### Not Scored

The visual design of materials is clear and easy to understand.

Materials include an appropriate amount of white space and a design that supports and does not distract from student learning. Materials embed age-appropriate pictures and graphics that support student learning and engagement without being visually distracting. Materials include digital components that are free of technical errors.

Evidence includes but is not limited to:

Materials include an appropriate amount of white space and a design that supports and does not distract from student learning.

- Materials include an appropriate amount of white space and a design that supports and does not distract from student learning. For example, the Write About It section in Chapter 1 of the Interactive Student eBook: Grade 2 gives a clear title and heading, and sections are clearly marked. The content is also organized in a logical progression to support student learning.
- Materials include an appropriate amount of white space and a design that supports and does not distract from student learning. For example, the Science Probe section in Chapter 6 of the Interactive Student eBook: Grade 2 gives a clear title and heading, and sections are clearly marked. The names, faces, and text that each student is saying are clearly defined and easy to read for students.

Materials embed age appropriate pictures and graphics that support student learning and engagement without being visually distracting.

- Materials embed age-appropriate pictures and graphics that support student learning and engagement without being visually distracting. The Interactive Student eBook: Grade 2 provides both photos and pictures with simple labels. For example, the STEM connection in Chapter 1 includes an illustration of Marie Maynard Daly that students can click on to see an enlarged view. There is ample white space around the photo and in between the text.
- The materials include an interactive vocabulary word wall with clear and authentic images and graphics to define and support the new words students are learning. Grade 2 materials include photos that identify the stages of a butterfly, caterpillar, chrysalis, larva, and pupa.



## McGraw Hill Texas Science Grade 2

- Materials embed age-appropriate pictures and graphics that support student learning and engagement without being visually distracting. The Interactive Student eBook: Grade 2 provides both photos and pictures with simple labels. For example, the Claim, Evidence, Reasoning activity in Chapter 1 includes simple text, bolded headers, and simple graphics that help students understand the directions.

Materials include digital components that are free of technical errors.

- Materials include digital components that are free of technical errors. For example, when browsing through the student assessments, all questions checked loaded properly. The Chapter 3 lesson review poses a question to students: “Which photo shows something that is not making sounds?” The materials had multiple options for the students to choose from, and all of the photos and options were visible and functioning.
- Materials include digital components that are free of technical errors. For example, the Interactive Student eBook: Grade 2 includes a heading that says, “What did Marie Daly test in the lab? Watch Meet a Biochemist to find out.” There is an image below the heading, and the link to the video redirects students to the video.

# McGraw Hill Texas Science Grade 2

## Indicator 9.2

Materials are intentionally designed to engage and support student learning with the integration of digital technology.

1	Materials integrate digital technology and tools that support student learning and engagement.	Yes
2	Materials integrate digital technology in ways that support student engagement with the science and engineering practices, recurring themes and concepts, and grade-level content.	Yes
3	Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate.	Yes
4	Materials integrate digital technology that is compatible with a variety of learning management systems.	Yes

## Not Scored

Materials are intentionally designed to engage and support student learning with the integration of digital technology.

Materials integrate digital technology and tools that support student learning and engagement. Materials integrate digital technology in ways that support student engagement with the science and engineering practices, recurring themes and concepts, and grade-level content. Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate. Materials integrate digital technology that is compatible with a variety of learning management systems.

Evidence includes but is not limited to:

Materials integrate digital technology and tools that support student learning and engagement.

- Materials integrate digital technology and tools that support student learning and engagement. Student learning is enhanced with digital tools provided in the Interactive Student eBook: Grade 2. Digital tools include text-to-speech features, digital text read-aloud, highlighting, a dictionary, and a glossary with visuals and simple definitions. These tools are easy to locate throughout the Grade 2 Teacher eBook as well as the Interactive Student eBook: Grade 2. All digital tools are student- and teacher-friendly. Videos are short and cover the content without taking time away from instruction.
- Materials integrate digital technology tools that enhance student engagement and learning. In the Interactive Student eBook: Grade 2, learning activities can be projected on a large screen or displayed on a student device. Students have the option to use the provided box that gives them the capability to choose if they want to write using the text feature or draw. There are different colors to choose from for writing or drawing to increase engagement. For example, the digital Build Your Skill activity in Chapter 1 of the Interactive Student eBook: Grade 2 prompts students to read about how scientists use tools to complete investigations. The digital Build Your Skill provides students with a passage about hot plates and then asks them to answer questions about hot plates and safety in their science notebooks.

## McGraw Hill Texas Science Grade 2

Materials integrate digital technology in ways that support student engagement with the science and engineering practices, recurring themes and concepts, and grade level content.

- Materials integrate digital technology in ways that support student engagement with science and engineering practices, recurring themes and concepts, and grade-level content. For example, in the Interactive Student eBook: Grade 2, students are provided with a digital simulation called Life Cycle: Frog and Butterfly. In this simulation, students are able to practice asking questions based on observations from scientific phenomena.
- Materials integrate digital technology in ways that support student engagement with scientific and engineering practices. In Chapter 8 of the Interactive Student eBook: Grade 2, a video called “Meet a Primatologist” is included to help students understand the contributions of scientists such as Jane Goodall and the importance of their research and innovation for society.
- The grade 2 Science materials include Recurring Theme and Concept Music Videos within the lessons throughout the grade 2 chapters. For example, in Chapter 6, Weather and the Sky, Lesson 2, Severe Weather, includes a Recurring Theme Video over “Patterns: Students learn more about the patterns.”

Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate.

- The Program Overview explains how the Science Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate. The Program Overview states, “Boundless Science Learning pushes the limits on learning and transports students beyond the walls of your classroom with cutting-edge digital content—including interactives, simulations, videos, and more aligned with lesson topics and designed to spark curiosity, support discussion, enhance review, and deepen understanding.” There are simulation videos, math replay videos, learn smart, virtual field trips, interactive graphics, word lab, and anytime investigation videos.
- Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate. For example, materials provide a Kahoot!: Premier Partnership for grades K-5. Students have access to multiple learning games and quizzes through Kahoot!, a platform that allows them to collaborate with their peers. Topics of games included in the membership include Plant Structures and Functions, Phases of the Moon, and Interactions in Ecosystems.
- Materials integrate digital technology that provides opportunities for teachers and/or students to collaborate. Materials include several digital activities in the Interactive Student eBook: Grade 2 that prompt students to share their work with a friend. For example, the Chapter 2 Explain activity asks students to view a video about solids and liquids and then record the evidence they gathered from this video in their science notebooks. The materials then prompt students to share their reasoning with a friend.

Materials integrate digital technology that is compatible with a variety of learning management systems.

- Materials integrate digital technology that is compatible with a variety of learning management systems. The materials are accessible and compatible with Chromebooks, iPads, PCs, Apple computers, smartphones, and any other device with internet access.

## McGraw Hill Texas Science Grade 2

- Materials can work with many different technologies, providers, and platforms that support either SAML 2.0(IDP) or LTI 1.0 and contain a unique identifier that is stored in the Student Information System (SIS). Examples of directory services, Learning Management Systems (LMS), and Identity Providers they work with include Active Directory Federation Services (ADFS), Microsoft Azure, Google, ID Automation, Hello ID, ClassLink, Schoology, and Canvas for SSO.

# McGraw Hill Texas Science Grade 2

## Indicator 9.3

Digital technology and online components are developmentally and grade-level appropriate and provide support for learning.

1	Digital technology and online components are developmentally appropriate for the grade level and align with the scope and approach to science knowledge and skills progression.	Yes
2	Materials provide teacher guidance for the use of embedded technology to support and enhance student learning.	Yes
3	Materials are available to parents and caregivers to support student engagement with digital technology and online components.	Yes

## Not Scored

Digital technology and online components are developmentally and grade-level appropriate and provide support for learning.

Digital technology and online components are developmentally appropriate for the grade level and align with the scope and approach to science knowledge and skills progression. Materials provide teacher guidance for the use of embedded technology to support and enhance student learning. Materials are available to parents and caregivers to support student engagement with digital technology and online components.

Evidence includes but is not limited to:

Digital technology and online components are developmentally appropriate for the grade level and align with the scope and approach to science knowledge and skills progression.

- Digital technology and online components included in the materials are developmentally appropriate for the grade level. For example, in the Interactive Student eBook: Grade 2, the text is written at a second-grade reading level, and the interactive tools are appropriate for the age and stage of a 7- to 8-year-old child. In Chapter 4 of the Interactive Student eBook: Grade 2, students are invited to engage with a lesson review that incorporates age-appropriate graphics and basic technology skills, such as clicking and typing brief sentences.
- Materials include digital technology that is developmentally appropriate and aligns with the scope and approach to science knowledge skills and progression. For example, the Interactive Student eBook: Grade 2 incorporates several videos that illustrate science concepts in a child-friendly way. The Explain section in Chapter 7 of the Interactive Student eBook: Grade 2 incorporates a video called “All About Plant Parts.” The video begins by showing children a Venus flytrap eating a spider. The narrator speaks in an engaging way and uses simple scientific terms to help students understand the concepts. Students are prompted to respond to the video by recording evidence they gathered from the video in their science notebooks.
- The materials provide information that identifies how online and digital components align with grade-level science knowledge and skills. The materials provide related TEKS for online and digital components within the Teacher's Guide. In Chapter 9, the materials guide the teacher to use the interactive word wall with students for the theme of cause and effect. The focus TEKS is listed in the bottom corner for this activity/lesson.

# McGraw Hill Texas Science Grade 2

Materials provide teacher guidance for the use of embedded technology to support and enhance student learning.

- Materials include teacher guidance for the use of embedded technology to support and enhance student learning. For teachers to find this information, they will access the publisher's Digital Technical Support Site. On this site, teachers can find many links to help with supporting and enhancing student learning and troubleshooting if they run into any problems.
- Materials include professional development videos and training for teachers to continue to develop their skills and knowledge in using the embedded technology to support and enhance student learning. Materials also include other resources that provide ongoing support and guidance. All of these resources can be found on the publisher's Digital Technical Support Site.

Materials are available to parents and caregivers to support student engagement with digital technology and online components.

- Materials provide teachers with the Communicating with Caregivers Guide. This resource provides a letter to families that advises them in using McGraw Hill's Digital Technical Support for accessing and engaging with the digital content.
- Online materials include a section specifically for families with information about science objectives, conversation starters, and family activities, but it does not contain any links or online resources. The materials do not include any webinars, videos, online access, Q&A, or any other resources digitally for parents and caregivers.
- Materials include a Letter to Home for each chapter in the Interactive Student eBook: Grade 2, that addresses digital technology and online components in the materials. Parents can also access digital student resources using their student's credentials.