## INSPIRE CALIFORNIA SCIENCE

GRADE- 7

**CURRICULUM PACING GUIDE** 

## **Getting Started**

- This pacing guide was designed to support teachers and parent educators in the implementation of the "Inspire California Science" curriculum from McGraw-Hill.
- Students will need the McGraw-Hill Consumable text and a student login for online materials such as videos, investigations and assessments. Website <a href="https://my.mheducation.com/login">https://my.mheducation.com/login</a> Username: Student first name and ID number (i.e. Stella95834) Password: Sutterpeak1
- Module assessments can be printed or assigned to take online. These are helpful to check for understanding and monitor student progress through the curriculum. Please discuss with your teacher if you would like your child to take the assessments and if you would like them assigned to take online or emailed to you as a pdf to print.
- This curriculum is available in hard copy or online. The online program includes accessibility options for students, including a read aloud feature for the textbook. This feature is indicated with a speaker icon in the top corner of the online curriculum. The online student text can be accessed by clicking on "Browse Your Course" on the Dashboard under "Where Do you want to go?" and then clicking on "Program Resources: Course Materials". You can then choose which Unit you want to access.
- The textbook will indicate when you should access online materials (videos, additional activities, etc.). You can access them by logging in, click on "Browse Your Course", click on the Module and/or Lesson and then "Launch Presentation". You can scroll through the resources to find the one you want by clicking on "next resource" at the bottom.

Inspire California Science Unit One: Weeks 1-7			
Week #	Lessons	Unit Focus	
1 Module Opener: Classification and States of Matter	□ Pages 2-4	MS-PS1-1 Develop models to describe the atomic composition of simple molecules and extended	
Lesson One: Energy and States of Matter Essential Question: How do properties affect a	□ Pages 5-28 & 97-98	MS-PS1-4 Develop a model that predicts and describes changes in particle motion,	
substance's state of matter?  Lesson Two: Changes in Temperature Essential Question: What effect does changing temperature have on substances?	□ Pages 29-54 & 99-100	temperature, and state of a pure substance when thermal energy is added or removed.	
3 & 4  Lesson Three: Changes in Pressure Essential Question: What effect does changing pressure have on substances?  Lesson Four:	□ Pages 55-72 & 100- 101		
Molecular Structure  Essential Question: How do atomic structures determine the properties of a substance?	□ Pages 73-96 & 102-103		
STEM Module Project and Wrap-Up	□ Pages 104-105		
5 Module Two Opener: Matter: Properties and Changes (cont.)	□ Pages 107-108	MS-PS1-2 Analyze and interpret data on the properties of substances before and after the	

Lesson One:	□ Pages 109-136 & 177-	substances interact to
Properties of Matter	178	determine if a chemical
Essential Question:		reaction has occurred.
How can you use properties to		
identify a substance?		MS-PS1-5 Develop and use a
6 & 7	□ Pages 137-156 & 179-	model to describe how the
Lesson Two:	180	total number of atoms does
Property Changes in Chemical		not change in a chemical
Reactions		reaction and thus mass is
Essential Question:		conserved.
How do atoms rearrange to		
form new substances in a		MS-PS1-6 Undertake a design
chemical reaction?		project to construct, test, and
		modify a device that either
Lesson Three:		releases or absorbs thermal
Energy Changes in Chemical	□ Pages 157-176 & 181	energy by chemical
Reactions		processes.
Essential Question:		
Why do some reactions give off		
thermal energy and some		
absorb thermal energy?		
STEM Modulo Project & Wran	_ n 100 100	
STEM Module Project & Wrap-	□ Pages 182-183	
STEM Module Project & Wrap- Up	□ Pages 182-183	
Up	□ Pages 182-183  ifornia Science Unit Two: We	eeks 8-18
Up		eeks 8-18
Up  Inspire Cal  Week #		Unit Focus
Up  Inspire Cal  Week # 8 & 9	ifornia Science Unit Two: Wo	Unit Focus MS-ESS2-1 Develop a model
Up  Inspire Cal  Week #	ifornia Science Unit Two: We	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of
Up  Inspire Cal  Week # 8 & 9	ifornia Science Unit Two: We	Unit Focus MS-ESS2-1 Develop a model
Week #  8 & 9  Module Opener:  Dynamic Earth	ifornia Science Unit Two: We	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of
Week #  8 & 9  Module Opener:  Dynamic Earth  Lesson One:	ifornia Science Unit Two: We	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question:	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question:	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the continental drift hypothesis?	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience processes have changed
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the continental drift hypothesis?  Lesson Two:	ifornia Science Unit Two: Wo Lessons  Pages 2-4	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the continental drift hypothesis?  Lesson Two: Development of a Theory	ifornia Science Unit Two: We Lessons  □ Pages 2-4  □ Pages 5-22 & 125	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience processes have changed
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the continental drift hypothesis?  Lesson Two:	ifornia Science Unit Two: We Lessons  □ Pages 2-4  □ Pages 5-22 & 125	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying
Week #  8 & 9  Module Opener: Dynamic Earth  Lesson One: Moving Continents Essential Question: What evidence supports the continental drift hypothesis?  Lesson Two: Development of a Theory	ifornia Science Unit Two: We Lessons  □ Pages 2-4  □ Pages 5-22 & 125	Unit Focus  MS-ESS2-1 Develop a model to describe the cycling of Earth's materials and the flow of energy that drives the process.  MS-ESS2-2 Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying

Lesson Three: Shaping Earth's Surface Essential Question: How does the movement of tectonic plates from mountains and volcanoes cause earthquakes?	Pages 41-66 & 126	of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.
11 - 13 Lesson Four: Changing Earth's Surface Essential Question: What geoscience processes change Earth's surface?	Pages 67-94 & 127	
Lesson Five: The Cycling of Earth's Materials Essential Question: How does the flow of energy and cycling of matter produce chemical and physical changes in Earth's materials?	Pages 95- 124 & 127	
14 & 15 STEM Module Project and Wrap-Up	Pages 128-131	MS-ESS3-2 Analyze and interpret data on natural hazards to forecast future catastrophic events and
Module Two Opener: Natural Hazards	Pages 132-134	inform the development of technologies to mitigate their effects.
Lesson One: Earthquakes Essential Question: Why are some areas more prone to earthquakes than others?	Pages 135-164 & 225	
16 Lesson Two: Volcanoes Essential Question: What geologic indicators signal the eruption of a volcano?	Pages 165-190 & 226	

17 & 18		Pages 191-224 & 226-	
Lesson Three:		227	
Severe Weather			
Essential Question:			
Why does the risk and type of			
severe weather vary from place			
to place?			
		Pages 228-231	
STEM Module Project & Wrap-			
Up			
Inchira Calif	arni	a Scianca Unit Throat Wa	aka 10 22
inspire canj	UIIII	a Science Unit Three: We	eks 13-23
19		Pages 2-4	MS-ESS3-1 Construct a
Module Opener:		_	scientific explanation based
Distribution of Earth's Resources			on evidence for how the
			uneven distributions of
Lesson One:		Pages 5-26 & 73	Earth's mineral, energy, and
Natural Resources			groundwater resources are
Essential Question:			the result of past and current
How do people use resources			geoscience processes.
from Earth's land, ocean,			
atmosphere, and biosphere?			
20		Pages 27-52 & 74	
Lesson Two:			
Distribution of Resources			
Essential Question:			
Why are resources distributed			
unevenly on Earth?			
21		Pages 53-72 & 75	
Lesson Three:			
Depletion of Resources			
Essential Question:			
How do humans impact			
resource distribution and			
availability?			
STEM Module Project		Pages 76-78	
		Č	
22		Page 79	MS-PS1-3 Gather and make
Module Wrap-Up			sense of information to
			describe that synthetic
(cont.)			materials come from natural

Module Two Opener: Material Science		Pages 80-82	resources and impact society.
Lesson One: Synthetic Technology Essential Question: How does the structure and function of materials influence how synthetic materials are made?		Pages 83-100 & 125- 126	
Lesson Two: Synthetic Materials and Societal Impacts Essential Question: What are the impacts on society and the environment of producing and using synthetic materials?		Pages 101-124 & 126- 127	
STEM Module Project and Wrap-Up		Pages 128-131	
Inspire Calij	forn	ia Science Unit Four: Wee	eks 24-36
24  Module Opener:  Matter and Energy in  Ecosystems		Pages 2-4	MS-LS1-6 Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy
Lesson One: Photosynthesis and Cellular Respiration Essential Question: How do plants and animals obtain and process energy?		Pages 5-24 & 59	into and out of organisms.  MS-LS1-7 Develop a model to describe how food is rearranged through chemical reactions forming new
25 Lesson Two: Flow of Energy Essential Question: How does energy move in an environment?		Pages 25-42 & 60	molecules that support growth and/or release energy as this matter moves through an organism.

26 Lesson Three: Cycling of Matter Essential Question: How does matter cycle through the environment?  27 STEM Module Project and Wrap-Up	Pages 43-58 & 61  Pages 62-65	MS-LS2-3 Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.
28 Module Two Opener: Dynamic Ecosystems  Lesson One:	Pages 66-68  Pages 69-84 & 123-125	MS-LS2-1 Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of
Resources in Ecosystems Essential Question: How do limited resources affect populations and communities? 29	Pages 85-102 & 126	organisms in an ecosystem.  MS-LS2-2 Construct an explanation that predicts patterns of interactions
Lesson Two: Interactions Within Ecosystems Essential Question: How do organisms interact in symbiotic and nonsymbiotic	rages 63-102 & 120	among organisms across multiple ecosystems.  MS-LS2-4 Construct an argument supported by
relationships?  30  Lesson Three: Changing Ecosystems Essential Question: How do natural and human disruptions to physical and biological components of ecosystems result in shifts in populations?	Pages 103-122 & 127	empirical evidence that changes to physical or biological components of an ecosystem affect populations.
31 STEM Module Project and Wrap-Up	Pages 128-131	
32 & 33  Module Three Opener:  Biodiversity in Ecosystems (cont.)	Pages 132-134	MS-LS2-5 Evaluate competing design solutions for maintaining biodiversity and ecosystem services.

Lesson One:	Pages 135-166 & 185-	
Benefits of Biodiversity	186	MS-ETS1-1 Define the criteria
Essential Question:		and constraints of a design
Why is biodiversity important?		problem with sufficient
34 & 35	Pages 167-184 & 187	precision to ensure a
Lesson Two:		successful solution, taking
Maintaining Biodiversity		into account relevant
Essential Question:		scientific principles and
What can be done to protect		potential impacts on people
biodiversity?		and the natural environment
36	Pages 188-193	that may limit possible
STEM Module Project and		solutions.
Wrap-Up		