

8th grade Science Guide

2023-2024 SCI801/802 & SCI8010/8020

http://grading.dmschools.org

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Foreword

The purpose of this guide is to:

- Provide guidance for scoring student evidence.
- Identify pacing for evidence collection.

This curriculum guide is not...

- Used for designing instruction (you'll use your curricular materials for that working through each lesson as designed).
- Meant to restrict your creativity as a teacher.
- A ceiling of what your students can learn, nor a set of unattainable goals.

Instead, the curriculum guide *is* meant to be a common vision for student learning and a set of targets and success criteria directed related to grade level standards by which to measure and report student progress and provide meaningful feedback.

The curriculum guide outlines the learning that is **most essential** for student success; it is our district's guaranteed and viable curriculum. The expectation is that every student in our district, regardless of school or classroom, will have access to and learn these targets. As the classroom teacher, you should use the materials within our adopted curriculum to help you to scaffold up to the learning targets and extend your students' learning beyond them.

Please consider this guide a living and dynamic document, subject to change and a part of a continuous feedback loop.

8th grade: Year at a Glance Curriculum Access: OpenSciEd

Semester I	Topic I: <u>Contact Forces</u>	Topic 2: <u>Sound Waves</u>	Topic 3: <u>Forces at a Distance</u>
Reporting frequency of topic scores	7 weeks	5 weeks	6 Weeks
Approximate beginning and end dates for the topics	8/28 – 10/12	10/18-11/21	11/27-1/12
Specific Pacing	Skip Lesson 16	Lesson 12 (optional), consider condensing 8 & 9	
Standards Aligned	<u>MS-PS2-2, MS-PS3-1</u> <u>MS-ETS1-3, MS-ETS1-2, MS-PS2-1</u>	<u>MS-PS4-1, MS-PS4-2</u>	<u>MS-PS2-3, MS-PS2-5, MS-PS3-2</u>

Semester 2	Topic 4: <u>Earth in Space</u>	Topic 5: <u>Genetics</u>	Topic 6: Natural Selection and Ancestry
<u>Reporting</u> frequency of topic <u>scores</u>	5 weeks	6 weeks	7 weeks
Approximate beginning and end dates for the topics	1/18-2/23	2/26-4/12	4/15 – 5/24
Specific Pacing	Skip Lesson 8-12		Skip Lesson 14
Standards Aligned	<u>MS-ESS-1-1, MS-ESS-1-2, MS-PS2-4, MS-ESS1-3</u>	<u>MS-LSI-5, MS-LS3-1, MS-LS3-2, MS-LS4-5, MS-LSI-2, MS-LSI-4</u>	<u>MS-LS4-1</u> , <u>MS-LS4-4</u> , <u>MS-LS4-6</u> <u>MS-LS4-2</u>

Standards-Referenced Grading Basics

Our purpose in collecting a body of evidence is to:

- Allow teachers to determine a defensible and credible topic score based on a representation of student learning over time.
- Clearly communicate where a student's learning is based on a topic ٠ scale to inform instructional decisions and push student growth.
- Show student learning of targets through multiple and varying points of data
- Provide opportunities for feedback between student and teacher.

		Score
<u></u>	Demonstrates proficiency (AT) in all learning targets and success at Level 4	4.0
Start at Level 3 when determining a topic \rightarrow score.	Demonstrates proficiency (AT) in all learning targets with partial success at Level 4	3.5
	Demonstrates proficiency (AT) in <u>all</u> learning targets	3.0
ta	Demonstrates proficiency (AT) in <u>at least half</u> of the learning targets	2.5
	Demonstrates some success criteria (PT) toward <u>all</u> learning targets	2.0
	Demonstrates some success criteria (PT) towards <u>some</u> of the learning targets	1.5
	Does not yet meet minimum criteria for the targets.	1.0
	Produces no evidence appropriate to the learning targets at any level	0

Scoring

A collaborative scoring process is encouraged to align expectations of the scale to artifacts collected. Routine use of a collaborative planning and scoring protocol results in calibration and a collective understanding of evidence of mastery. Enough evidence should be collected to accurately represent a progression of student learning as measured by the topic scale. Teachers look at all available evidence to determine a topic score. All topic scores should be defensible and credible through a body of evidence.

***Only scores of 4, 3.5, 3, 2.5, 2, 1.5, 1, and 0 can be entered as Topic Scores.

Multiple Opportunities

Philosophically, there are two forms of multiple opportunities, both of which require backwards design and intentional planning. One form is opportunities planned by the teacher throughout the unit of study and/or throughout the semester. The other form is reassessment of learning which happens after completing assessment of learning at the end of a unit or chunk of learning.

Students will be allowed multiple opportunities to demonstrate proficiency. Teachers need reliable pieces of evidence to be confident students have a good grasp of the learning topics before deciding a final topic score. To make standards-referenced grading work, the idea of "multiple opportunities" is emphasized. If after these opportunities students still have not mastered Level 3, they may then be afforded the chance to reassess.

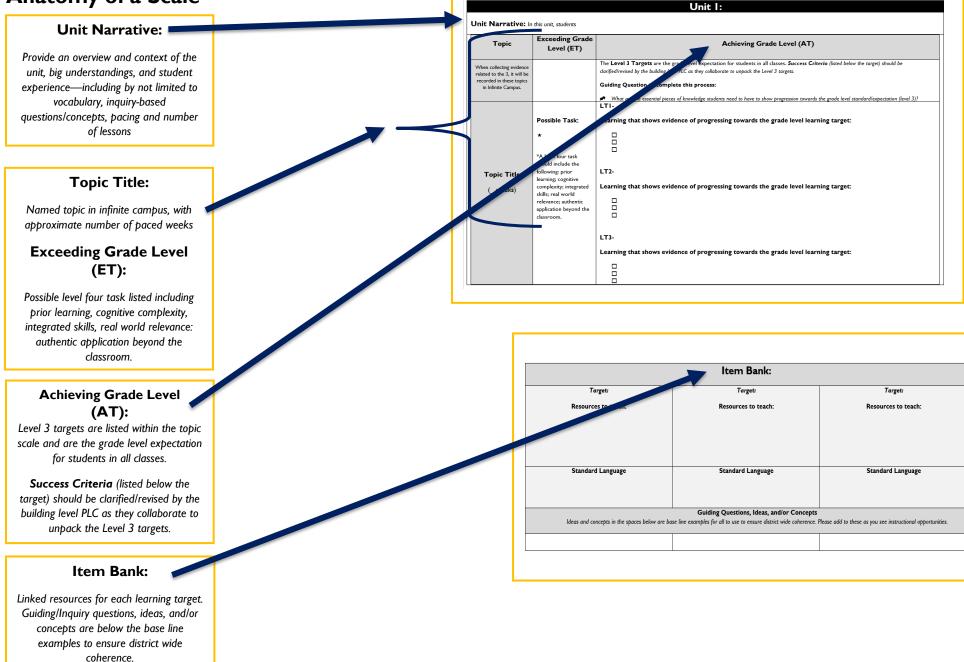
Guiding Practices of Standards-Referenced Grading

- I. A consistent 4-point grading scale will be used.
- 2. Student achievement and behavior will be reported separately.
- 3. Scores will be based on a body of evidence.
- 4. Achievement will be organized by learning topic and converted to a grade at semester's end.
- 5. Students will have multiple opportunities to demonstrate proficiency.
- 6. Accommodations and modifications will be provided for exceptional learners.

Topic

Evidence shows the student ...

Anatomy of a Scale-



Unit I: Contact Forces

Unit Narrative from **OpenSciEd**

Driving Question: Why do things sometimes get damaged when they hit each other?

Торіс	Achieving Grade Level (AT)
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.
be recorded in this topic in	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target. LT1A- Analyze and interpret data to figure out that all solid objects behave elastically up to a point, and that the forces between objects in a collision are always equal in size and opposite in direction. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Develop and use free body diagram models to represent the changes in the relative strength of forces on different objects in a collision. Addressed: Lessons 4 and 5 Develop and use system models to support explanations for how contact forces, including friction and air resistance, cause energy to be transferred from one part of the system to another before, during, and after a collision. Addressed: Lessons 2, 5, 8 and 9 Plan out an investigation for testing including independent, dependent, and controlled variables. Addressed: Lessons 3, 4, 7, 9 and 12 LT1B- Create and use mathematical models to determine how changes in the mass and speed of an object affect the amount of kinetic energy that object has. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Analyze data from investigations to determine what materials better protect objects in a collision to design a new solution. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Plan an investigation to determine what materials better protect objects in a collision. Addressed: Lesson 12 Carry out analyze data from investigation about how the shape and size of various
	 Develop matroscopic models of microscopic structures making up materials used in a design solution. Addressed: Lesson 13 Use models to generate data about how space deforms, contact time, and peak forces in a collision are related. Addressed: Lessons 12 and 13 Identify trade-offs and optimize designs solutions using evidence from investigations to solve different design problems for different stakeholders and different contexts. Addressed: Lessons 11 and 14

Resources Teams Folder			
	Need more help? Check out the		
LTIA Assessment Opportunities Lesson 4: Task Part 2, 3, 4, 5, and 10 Independent, Dependent and Controlled Variables Lesson 5: Task Part 8 and 12 Lesson 6: Soccer Assessment-questions 1, 2, and 5 Lesson 10: Baseball Assessment- questions 1, 2, 3 Lesson 15: Cheerleading Assessment Part 1- questions 2a, 2b	LTIB Assessment Opportunities Lesson 6: Soccer Assessment-questions 3, 4, 6, and 7 Lesson 7: Graphing Kinetic Energy Relationships Lesson 10: Baseball Assessment-questions 4- 12	LTIC Assessment Opportunities Lesson 11: Pre-Assessment-Protection Device Design Lesson 12: Task part 5-Compare Class Data Lesson 15: Cheerleading Assessment	LTID Assessment Opportunities Lesson 12: Task part 9- Construct Individual Material Explanation Lesson 14: Protective Device Redesign and Stakeholder feedback Lesson 15: Cheerleading Assessment Part 1-questions 1a, 1b Lesson 15: Cheerleading Assessment Part 2
	Consumable and locally Review full list of me		
 Index card: green and red Tape Meter stick Rice Noodles Brick Painter's tape Soda Cracker Cooking Spray Wax Paper Oven or toaster Paper towel Small Rock Box Plastic Cup Sponge Box Cutter Coffee Stirrer Duct Tape Styrofoam Sheet Scrap Paper Post-its 		 Markers Colored Pencils Calculator Rubber bands Large Pink eraser Takeout food container Cotton Ball Terry Cloth Bubble Wrap: small and large Foam earplugs Plastic file folder Lesson 9 Station Work Copies of Lesson 6 Assessment Copies of Lesson 10 Assessment Copies of Lesson 15 Assessment 	

Unit 2: Sound Waves

Unit Narrative from **OpenSciEd**

Driving Question: How can a sound make something move?

Торіс	Achieving Grade Level (AT)
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.
	LT2A- Use mathematical representations (data) of a simple wave model to describe how the amplitude and frequency of a wave is related to the sound and energy of a wave.
Sound Waves 5 Weeks 10/18-11/21	 Learning that shows evidence of progressing towards grade-level learning target (success criteria): Using a graphical representation, explain amplitude of a wave and how it affects sound and energy. Addressed: Lessons 4 and 13 Using a graphical representation, explain frequency of a wave and how it affects sound and energy. Addressed: Lessons 4, 5 and 13 Construct an argument using evidence from graphs to support an explanation of how amplitude and frequency affect the sound and energy of a wave. Addressed: Lesson 5
 Weeks 10/18-11/21 LT2B- Develop and use a model to describe how waves interact with a medium. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Develop a model of how changes in the frequency and amplitude of a wave affect the vibrations of a sound. Addressed: Lesson 10 Develop a model supporting how sound requires a medium (solid, liquid and/or gas) to travel. Addressed: Lessons 9, 10, 11 and 14 Use a model to explain how a force can impact the energy of a vibration through a medium and make a sound. Addressed: Lesson 13 	

Re	esources	
<u>Teams Folder</u>		
Need more help? Check out the <u>Unit Webinar</u> for Teachers		
LT2A Assessment Opportunities Lesson 4: Task part 7, monitor progress tracker (formative) Lesson 5: Exit Ticket, Analyzing Graphs of Sounds Source Vibrations Lesson 6: Harp Assessment, question 5 Lesson 13: Sonic Fire Extinguisher Assessment, questions 1-3 Lesson 14: Unit assessment, questions 1-3		
	l locally sourced materials Il list of materials here	
 Bowl: metal or glass Cardboard: large flat Charged cell phone Clothespin Chart Paper or butcher paper Guitar or Violin Drum w/ drumstick Index Cards Dark Marker 	 Meter Stick Colored Pencils Rocks: large and small Ruler Salt Sticky dots Post-its Duct Tape Timer Xylophone w/mallet Copies of Lesson 6 Assessment Copies of Lesson 11 Assessment Copies of Lesson 13 Assessment Copies of Lesson 14 Assessment 	

Unit 3: Forces at a Distance

Topic Narrative from **OpenSciEd**

Driving Question: How can a magnet move another object without touching it?

Торіс	Achieving Grade Level (AT)
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.
Forces at a	 LT3A- Develop and use a model to show the cause-and-effect relationships and the energy storage within an electromagnetic system. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Identify the critical components of an electromagnetic system (power sources, magnet, coil). Addressed: Lessons 1-3 Diagram a magnetic field in an electromagnetic system. Addressed: Lessons 4, 5 and 10 Identify magnetic forces (repulsion and attraction) interacting at a distance. Addressed: Lessons 4, 7 and 10 Recognize how changes to an electromagnetic system (ex: number of magnets, distance, number of coils) affect the potential energy within it. Addressed: Lessons 3, 7, 8, 10 and 11
Distance 6 Weeks 11/27-1/12	 LT3B- Design an investigation to test the factors that cause changes in the strength of magnetic forces. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Identify variables (independent, dependent, constant) in an investigation. Addressed: Lessons 7, 8, 10 and 11 Develop a hypothesis that includes cause-and-effect framing. Addressed: Lessons 7, 8, 10 and 11 Develop a coherent procedure that addresses the hypothesis. Addressed: Lessons 7, 8 and 11 Describe how to accurately collect and record the data. Addressed: Lessons 7, 8 and 11
	 LT3C- Conduct an investigation to test the factors that cause changes in the strength of magnetic forces. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Identify patterns in organized data. Addressed: Lessons 10 and 11 Recognize the relationship between the hypothesis and data. Addressed: Lessons 10 and 11

	Resources Teams Folder		
	Need more help? Check out the <u>Unit Webinar</u> for T	eachers	
LT3A Assessment Opportunities Lesson 2: Exit Ticket Lesson 3: Home Learning Lesson 4: Exit Ticket: Day I and 2 Lesson 5: Exit Ticket Lesson 6: Midpoint Assessment Lesson 9: Revising Model- Rubric	LT3B Assessment Opportunities Lesson 7: Investigation Activity Lesson 8: Exit Ticket Lesson 10: Investigating the Effects – A-C Lesson 11: Investigation Plan Lesson 12: Summative Assessment	LT3C Assessment Opportunities Lesson 10: Investigating the Effects – C-F Lesson 11: Investigation Plan	
esson 12: Summative Assessment	Consumable and locally sourced materials Review full list of materials here		
Scissors	Crayon or high	lighters or markers	
Screwdriver		(for students/DQB)	
Colored markers	Box Cutter		
Penny		ent, 1/2" × 500"	
• Quarter	Post-it Notes, 2		
Scrap paper for exit ticket		Post-it® Arrow Flags, 100pk	
• 3x5 piece of thick cardboard	Labels, Color	0	
• Index card	Aluminum Foil		
• I empty I-L clear soda bottle (optional)	Quart freezer I	5	
 IL of Mineral oil (optional) 		<u>Copies Lesson 6 Assessment</u>	
White copy paper	Lesson 7 Asse	essment	
Bricks	Lesson II As		
Colored pencils	Lesson 12 As	sessment	

Unit 4: Earth in Space

Unit Narrative from **OpenSciEd**

Driving Question: How are we connected to the patterns we see in the sky and space?

Торіс	Achieving Grade Level (AT)
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.
Earth in Space 5 Weeks 1/18-2/23	 LT4A- Develop and use a model to describe cyclic patterns of seasons, lunar phases and eclipses in the Earth-sun-moon system. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Use data to explain how the path that the sun follows across the sky changes over time. Addressed: Lessons 2 and 3 Explain how the sun's position in the sky impacts the Earth's surface (seasons). Addressed: Lesson 4 Use a model to explain how the pattern of the shape of the moon changes based on its position relative to Earth. Addressed: Lesson 6 Use a model to explain why we see eclipses at certain times and not others. Addressed: Lesson 7
	 LT4B- Develop and use a model to describe the role of gravity in the motions within both galaxies and the solar system. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Describe the relationship between size, distance, and the strength of gravity among objects in the solar system. Addressed: Lesson 14 Develop a model to describe how gravity organizes matter at various scales. Addressed: Lessons 15 and 16

Resources		
<u>Teams Folder</u>		
Need more help? Check out the <u>Unit Webinar</u> for Teachers		
LT4A LT4B		
Assessment Opportunities	Assessment Opportunities	
esson 3: Day 3 Progress Tracker	Lesson 13: Day 2 - Exit Ticket	
Lesson 4: What Causes the seasons in Australia? (Summative)	Lesson 15: Comic Book Storyboard	
Lesson 6: Second copy of Initial Model	Lesson 16: Whole Class discussions (Formative)	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System		
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System	Lesson 16: Whole Class discussions (Formative)	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative)	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable	Lesson 16: Whole Class discussions (Formative)	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative) and locally sourced materials	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable <u>Revie</u> • Audio player/device	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative) and locally sourced materials ew full list of materials here	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable <u>Revie</u>	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative) and locally sourced materials ew full list of materials here • Copies of Lesson 4 Assessment	
 Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable Revit Audio player/device Headphones (optional) Scissors 	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative) and locally sourced materials ew full list of materials here • Copies of Lesson 4 Assessment	
Lesson 6: Second copy of Initial Model Lesson 6: Day 2: Shape Patter of the Earth-Sun-Moon System Lesson 7: Self-Assessment Consumable <u>Revie</u> • Audio player/device • Headphones (optional)	Lesson 16: Whole Class discussions (Formative) Lesson 17: Small Group Model (Summative) and locally sourced materials ew full list of materials here • Copies of Lesson 4 Assessment	

Unit 5: Genetics

Topic Narrative from OpenSciEd

Driving Question: Why are living things different from one another?

Торіс	Achieving Grade Level (AT)
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.
	LT5A- Construct an explanation using models and math to describe how sexual reproduction results in offspring with genetic variation.
	 Learning that shows evidence of progressing towards grade-level learning target (success criteria): Recognize how an individual's behaviors influence the development of muscle tissue. Addressed: Lessons 2-4 Discuss cause and effect relationships among karyotype, allele, protein, and phenotype. Addressed: Lessons 5 and 6 Use simple mathematical models (Punnett squares and pedigrees) to help predict the outcome of known genetic crosses. Addressed: Lesson 8 Investigate technologies (selective breeding) that have changed the ways humans influence the inheritance of desired traits.* Addressed: Lesson 9
Genetics 6 Weeks	LT5B- Construct an explanation using a representation of plant reproductive parts and their functions for how these specialized structures support sexual and asexual reproduction in plants.
2/26 – 4/12	 Learning that shows evidence of progressing towards grade-level learning target (success criteria): Explain how trait variation can be a continuous range. Addressed: Lesson 11 Describe where genetic material can be found in both plant and animal cells. Addressed: Lesson 12 Identify significant plant structures and their functions. Addressed: Lesson 13
	 LT5C- Construct an explanation about how environmental and genetic factors influence the growth of organisms and how organisms reproduce, either sexually or asexually, and transfer their genetic information to their offspring. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Discuss how the genetic information of offspring from asexual reproduction compares to that of the parent. Addressed: Lesson 14 Identify the environmental factors that influence the range of trait variation within a species. Addressed: Lesson 15
	 Identify the environmental factors that influence the range of trait variation within a species. Addressed: Lesson 15 Make a connection between multiple genes' and the environment's influence on trait variation. Addressed: Lesson 16

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	eed more help? Check out t		
LT5A Assessment Opportunities Lesson 2: Progress Tracker Lesson 3: Progress Tracker Lesson 4: Progress Tracker Lesson 5: Chromosomes in Sex Cells and Karyotype handout Lesson 7: Revised model Lesson 9: Progress Tracker Lesson 10: Goldfish Assessment	LT5B Assessment Opportunities Lesson 12: Extracting Genetic Material & Progress Tracker Lesson 13: Construct an Explanation on Exit Ticket		LT5C Assessment Opportunities Lesson 14: Asexual reproduction notes & Self- Assessment Lesson 15: Explaining Environmental Factors Lesson 16: Arm Span Reading and Modeling Lesson 17: Redwoods Assessment
*Note: This success criteria allows for an extension opportunity for additional technologies such as CRSPR, genetic engineering, GMOs, etc.	Consumable and loca	ally sourced materials	
Apple, fresh		Strawberry, fresh	
Chart paper		Strawberry, froze	1
Flower, fresh		Apron, non-latex	
		Paper, copy, white Seferty goggles	
Glue Stick		 Safety goggles 	10 Assocrament
• Ice			
IceMarker, dark color		<u>Copies of Lesson</u>	
• Ice		<u>Copies of Lesson</u>	14 Assessment
IceMarker, dark colorMarker, Permanent black			14 Assessment

Unit 6: Natural Selection and Ancestry

Unit Narrative from **OpenSciEd**

Driving Question: How could things living today be connected to the things that lived long ago?

Торіс	Achieving Grade Level (AT)	
When collecting evidence related to these targets, it will be recorded in this topic in Infinite Campus.	The Level 3 Targets are the grade-level expectations for students in all classes. Success Criteria are provided below each target.	
	 LT6A- Apply scientific ideas to construct an argument supported by evidence and reasoning of anatomical similarities and differences that explains how organisms that lived long ago are ancestors to modern organisms. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Interpret the fossil record for patterns. Addressed: Lessons 2, 3, 4 and 5 Compare differences between modern living organisms and fossilized organisms. Addressed: Lesson 2, 3, 5 and 13 Explain what happened to ancient species. Addressed: Lesson 1, 4, 5 and 13 	
Natural Selection and Ancestry 7 weeks 4/25 – 5/24	 LT6B- Construct an explanation based on evidence that describes how genetic variation of traits in a population increases some individuals' probability of surviving and reproducing in a specific environment. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Describe how mutations in an individual may result in genetic variation in a population. Addressed: Lessons 7, 8, 12 and 13 Describe the cause-and-effect relationship between an organism's survival and its inheritance of different traits. Addressed: Lessons 7 and 8 	
	 LT6C- Construct an explanation based on evidence collected from a simulated environment and models for how small changes in an environment can cause large changes in a population over time. Learning that shows evidence of progressing towards grade-level learning target (success criteria): Gather evidence in a simulated environment. Addressed: Lessons 9 and 10 Make connections between data that was gathered and ideas from the General Model of Natural Selection.* Addressed: Lessons 9 and 10 	

Resources Teams Folder					
Need more help? Check out the <u>Unit Webinar</u> for Teachers					
LT6B Assessment Opportunities Lesson 8: Exit Ticket (formative) Lesson 11: Anole Explanation Lesson 13: Ancient and Modern Penguins Ex	LT6C Assessment Opportunities Lesson 10: My Model for Changes in Bacteria Populations Lesson 11: Anole Explanation				
	*General Model for Natural Selection – Please view				
Consumable and locally sourced materials Review full list of materials here					
 Hor Hor Wh Cor Cor Cor Cor Cor Cor Cor Cor 	guin Stickers* rse Stickers* rseshoe crab Stickers* pale stickers* pies of Lesson 4 Assessment pies of Lesson 6 Assessment pies of Lesson 8 Assessment pies of Lesson 10 Assessment pies of Lesson 11 Assessment pies of Lesson 13 Assessment pies of Lesson 13 Assessment				
	LT6B Assessment Opportunities Lesson 8: Exit Ticket (formative) Lesson 11: Anole Explanation Lesson 13: Ancient and Modern Penguins Ex Consumable and locally sourced Review full list of materials here • Pen • Hou • Hou • Wh • Cou • Cou • Cou • Cou • Cou • Cou • Cou				