

# Mini-Map for SCI.EE.5.PS1-2

Subject: Science Physical Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.PS1-2 Measure and compare weights of substances	5-PS1-2 Measure & graph quantities to provide evidence that,
before and after heating, cooling, or mixing substances to show	regardless of the type of change that occurs when heating,
that weight of matter is conserved.	cooling, or mixing substances, the total weight of matter is
	conserved.

Initial	Precursor	Target
Recognize the change in state from liquid	Compare the weight of an object before	Measure and compare weights of
to solid or from solid to liquid of the same	and after it changes from a liquid to a	substances before and after heating,
material.	solid and from a solid to a liquid.	cooling, or mixing substances to show
		that weight of matter is conserved.

Linkage Level	Instructional Activities		
Initial/Precursor/Target	N/A		
Connections			
Science and Engineering Practices	Using Mathematics and Computational Thinking		
Crosscutting Concepts	Scale, Proportion, and Quantity		
ELA Essential Elements	ELA.EE.W.5.7: Conduct short research projects using 2 or more sources.		
	<b>ELA.EE.W.5.8</b> : Gather and sort relevant information on a topic from print or digitalsources		
into given categories.			
Released Testlets			
See the Guide to Practice Activities and Released Testlets.			

SCI.EE.5.PS1-2 Measure and compare weights of substances before and after heating, cooling, or mixing substances to show that weight of matter is conserved.







# Mini-Map for SCI.EE.5.PS1-3

Subject: Science Physical Grade: 3–5

## Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.PS1-3 Make observations and measurements to	5-PS1-3 Make observations and measurements to identify
identify materials based on their properties (e.g., weight, shape,	materials based on their properties.
texture, buoyancy, color, or magnetism).	

Initial	Precursor	Target
Match materials with similar physical properties (e.g., shape, texture, weight).	Classify materials by physical properties (e.g., weight, shape, texture, buoyancy, color, or response to magnetic force).	Make observations and measurements to identify materials (e.g., glass, wood, metal) based on their properties (e.g., weight, shape, texture, buoyancy, color, or response to magnetic force).

Linkage Level	Instructional Activities		
Initial/Precursor/Target	N/A		
Connections			
Science and Engineering Practices	Planning and Carrying out Investigations		
Crosscutting Concepts	Scale, Proportion, and Quantity		
ELA Essential Elements	<b>ELA.EE.W.5.7</b> : Conduct short research projects using 2 or more sources. <b>ELA.EE.W.5.8</b> : Gather and sort relevant information on a topic from print ordigital sources into given categories.		
Mathematics Essential Elements	M.EE.5.MD.A.1: Use standard units to measure weight and length.		
Released Testlets			
See the Guide to Practice Activities and Released Testlets.			

SCI.EE.5.PS1-3 Make observations and measurements to identify materials based on their properties (e.g., weight, shape, texture, buoyancy, color, or magnetism).







# Mini-Map for SCI.EE.5.PS2-1

Subject: Science Physical Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.PS2-1 Demonstrate that the gravitational force exerted	5-PS2-1 Support an argument that the gravitational force
by Earth on objects is directed down.	exerted by Earth on objects is directed down.

## Linkage Level Descriptions

Initial	Precursor	Target
Recognize the direction an object will go	Predict the direction an object will go	Demonstrate that the gravitational force
when dropped (recognition should be	when dropped (not to be misconstrued as	exerted by Earth on objects is directed
after the action).	an object moving forward/backward or	down.
	staying still).	

Linkage Level	Instructional Activities		
Initial/Precursor/Target	N/A		
Connections			
Science and Engineering Practices	Engaging in Argument from Evidence		
Crosscutting Concepts	Cause and Effect		
ELA Essential Elements	ementsELA.EE.RI.5.1: Identify words in the text to answer a question about explicit information.ELA.EE.RI.5.9: Compare and contrast details gained from two texts on the same topic.ELA.EE.W.5.1: Write opinions about topics or text (introduce a topic or text and state an opinion about it, provide reasons to support the opinion).		
Released Testlets			
See the Guide to Practice Activities and Released Testlets.			

**SCI.EE.5.PS2-1** Demonstrate that the gravitational force exerted by Earth on objects is directed down.



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I	Initial	
P	Precursor	
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# Mini-Map for SCI.EE.5.PS3-1

Subject: Science Physical Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.PS3-1 Create a model to describe that energy in	5-PS3-1 Use models to describe that energy in animals' food
animals' food was once energy from the Sun.	(used for body repair, growth, motion, and to maintain body
	warmth) was once energy from the Sun.

## Linkage Level Descriptions

Initial	Precursor	Target
Identify simple models (e.g., concrete	Use models (e.g., visual/tactile displays)	Create a model (e.g., visual/tactile
pictures or tactile displays) that show that	to describe that plants capture energy	display) to describe that energy in
plants need sunlight to grow.	from sunlight.	animals' food was once energy from the
		Sun.

### **Instructional Resources**

Linkage Level	Instructional Activities	
Initial/Precursor/Target	Energy from the Sun	
	Connections	
Science and Engineering Practices	Developing and Using Models	
Crosscutting Concepts	Energy and Matter	
ELA Essential Elements	ELA.EE.RI.5.7: Locate information in print or digital sources.	
ELA.EE.SL.5.5: Select or create audio recordings and visual/tactile displays to enhance a		
presentation.		
Released Testlets		
See the Guide to Practice Activities and Released Testlets.		

DLM Essential Elements: SCI.EE.5.PS3-1

**SCI.EE.5.PS3-1** Create a model to describe that energy in animals' food was once energy from the Sun.



Map Key		
l P T	Initial Precursor Target	



# Mini-Map for SCI.EE.5.LS1-1

Subject: Science Life Grade: 3–5

## Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.LS1-1 Provide evidence that plants need air and water	SCI.EE.5.LS1-1 Support an argument that plants get the
to grow.	materials they need for growth chiefly from air and water.

Initial	Precursor	Target
Distinguish things that grow from things	Provide evidence that plants grow (e.g.,	Provide evidence that plants need air and
that don't grow (but some things grow	increase in weight, size, or number of	water (but not soil) to grow.
slower than others).	stems, leaves, roots).	

Linkage Level	Instructional Activities
Initial/Precursor/Target	N/A
	Connections
Science and Engineering Practices	Engaging in Argument from Evidence
Crosscutting Concepts	Energy and Matter
ELA Essential Elements	<ul> <li>ELA.EE.RI.5.1: Identify words in the text to answer a question about explicit information.</li> <li>ELA.EE.RI.5.9: Compare and contrast details gained from two texts on the same topic.</li> <li>ELA.EE.W.5.1: Write opinions about topics or text (introduce a topic or text and state an opinion about it, provide reasons to support the opinion).</li> </ul>
Mathematics Essential Elements	M.EE.5.MD.1.b: Use standard units to measure weight and length of objects.
Released Testlets	
See the Guide to Practice Activities and Released Testlets.	

**SCI.EE.5.LS1-1** Provide evidence that plants need air and water to grow.







# Mini-Map for SCI.EE.5.LS2-1

Subject: Science Life Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.LS2-1 Create a model that shows the movement of matter	<b>5-LS2-1</b> Develop a model to describe the movement of matter among
(e.g., plant growth, eating, composting) through living things.	plants, animals, decomposers, and the environment.

## Linkage Level Descriptions

Initial	Precursor	Target
Identify common human foods (and non-food	Identify a model that shows the movement of	Create a model that shows the movement of
items).	matter from plants to animals (e.g., food	matter (e.g., plant growth, eating,
	chain/food web).	composting) through living things.

Linkage Level	Instructional Activities	
Initial/Precursor/Target	Food Cycles	
Connections		
Science and Engineering Practices	Developing and Using Models	
Crosscutting Concepts	Systems and System Models	
ELA Essential Elements	ELA.EE.RI.5.7: Locate information in print or digital sources.	
	ELA.EE.SL.5.5: Select or create audio recordings and visual/tactile displays to enhance a	
presentation.		
Released Testlets		
See the Guide to Practice Activities and Released Testlets.		

SCI.EE.5.LS2-1 Create a model that shows the movement of matter (e.g., plant growth, eating, composting) through living things.







# Mini-Map for SCI.EE.5.ESS1-2

Subject: Science Earth and Space Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.ESS1-2 Represent and interpret data on a picture, line,	SCI.EE.5-ESS1-2 Represent data in graphical displays to reveal
or bar graph to show seasonal patterns in the length of daylight	patterns of daily changes in length and direction of shadows,
hours.	day and night, and the seasonal appearance of some stars in
	the night sky.

Initial	Precursor	Target
Order events in a daily routine, including	Recognize patterns about length of	Represent and interpret data on a
sunrise and sunset.	daylight hours over time (e.g., week to	picture, line, or bar graph to show
	week, month to month).	seasonal patterns in the length of
		daylight hours.

Linkage Level	Instructional Activities	
Initial/Precursor/Target	The Daylight Hours	
	Connections	
Science and Engineering Practices	Analyzing and Interpreting Data	
Crosscutting Concepts	Patterns	
ELA Essential Elements	<b>ELA.EE.SL.5.5</b> : Select or create audio recordings and visual/tactile displays to enhance a presentation.	
Mathematics Essential Elements	lementsM.EE.5.NBT.2: Use the number of zeros in numbers that are powers of 10 to determine which values are equal, greater than, or less than.M.EE.5.G.2: Sort two-dimentional figures and identify the attributes (angles, number of sides, corners, color) they have in common.	
Released Testlets		
See the Guide to Practice Activities and Released Testlets.		

SCI.EE.5.ESS1-2 Represent and interpret data on a picture, line, or bar graph to show seasonal patterns in the length of daylight hours.







# Mini-Map for SCI.EE.5.ESS2-1

Subject: Science Earth and Space Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.ESS2-1 Develop a model showing how water	5-ESS2-1 Develop a model using an example to describe ways
(hydrosphere) affects the living things (biosphere) found in a	the geosphere, biosphere, hydrosphere, and/or atmosphere
region.	interact.

Initial	Precursor	Target
Anticipate routine (e.g., clothes to wear,	Recognize how water (hydrosphere)	Develop a model showing how water
activities to do) to follow when it is	affects people in a region (e.g., floods,	(hydrosphere) affects the living things
raining.	droughts, mudslide, tourism, and	(biosphere) found in a region.
	recreation).	

Linkage Level	Instructional Activities		
Initial/Precursor/Target	N/A		
Connections			
Science and Engineering Practices	Developing and Using Models		
Crosscutting Concepts	Systems and System Models		
ELA Essential Elements	ELA.EE.RI.5.7: Locate information in print or digital sources.		
	<b>ELA.EE.SL.5.5</b> : Select or create audio recordings and visual/tactile displays to enhance a presentation.		
Mathematics Essential Elements	M.EE.5.G.2: Sort two-dimentional figures and identify the attributes (angles, number of		
	sides, corners, color) they have in common.		
Released Testlets			
See the <u>Guide to Practice Activities and Released Testlets</u> .			

**SCI.EE.5.ESS2-1** Develop a model showing how water (hydrosphere) affects the living things (biosphere) found in a region.





# Mini-Map for SCI.EE.5.ESS3-1

Subject: Science Earth and Space Grade: 3–5

### Learning Outcome

DLM Essential Element	Grade-Level Standard
SCI.EE.5.ESS3-1 Use information to describe how people can	SCI.EE.5.ESS3-1 Obtain and combine information about ways
help protect the Earth's resources and how that affects the	individual communities use science ideas to protect the Earth's
environment.	resources and environment.

Initial	Precursor	Target
Identify one way to protect a resource of Earth (e.g., put paper in the recycling bin to save trees, recycle cans to save metal,	Compare two methods (e.g., reusable water bottles vs. recycling disposable bottles, shutting off lights, using both	Use information to describe how people can help protect Earth's resources and how that affects the environment.
turn off appliances to save energy).	protect Earth's resources.	

Linkage Level	Instructional Activities	
Initial/Precursor/Target	N/A	
Connections		
Science and Engineering Practices	Obtaining, Evaluating, and Communicating Information	
Crosscutting Concepts	Systems and System Models	
ELA Essential Elements	<b>ELA.EE.RI.5.1</b> : Identify words in the text to answer a question about explicit information.	
	ELA.EE.RI.5.7: Locate information in print or digital sources.	
	<b>ELA.EE.RI.5.9</b> : Compare and contrast details gained from two texts on the same topic.	
Released Testlets		
See the Guide to Practice Activities and Released Testlets.		

SCI.EE.5.ESS3-1 Use information to describe how people can help protect the Earth's resources and how that affects the environment.



