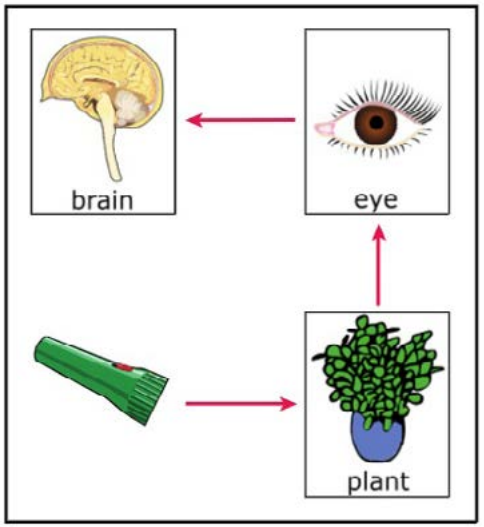
Key for M-STEP Grade 5 Science
Online Tools Training (OTT) Sample Items

Grade 5 Sample Item Cluster: Lights Out!

Topic Bundle: Structure Function and Information Processing*

Item #	NGSS Alignment	Key (screenshot for interaction type)	Assessment Claim
Lights Out! (Part 1)			
1	**PS4.B** **CCC 2**-Cause and Effect	d	The student uses cause and effect rationale to select the correct path of light.
2	**LS1.D** **CCC 2**-Cause and Effect	d	The student uses cause and effect rationale to select the correct information processing description.
3	**LS1.D** **SEP 2**-Developing and Using Models **CCC 4**-Systems and System Models		The student uses the components of the given system to model the path of light information.

Key for M-STEP Grade 5 Science
Online Tools Training (OTT) Sample Items

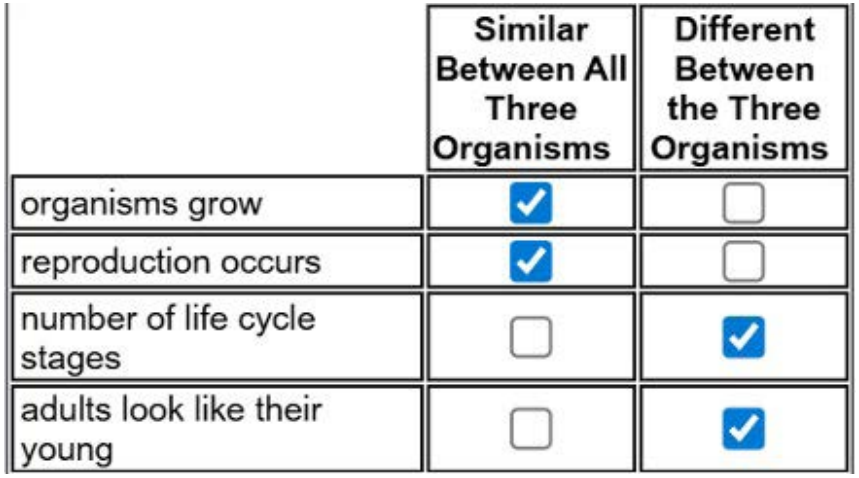
Item #	NGSS Alignment	Key (screenshot for interaction type)	Assessment Claim
Lights Out! (Part 2)			
4	**LS1.A** **SEP 7**-Engaging in Argument from Evidence **CCC 2**-Cause and Effect	**Part A:** b **Part B:** d	The student uses cause and effect rationale to select the correct path of light.
5	**LS1.A** **SEP 7**-Engaging in Argument from Evidence **CCC 2**-Cause and Effect	**Evidence Statements:** Option 1 and 4 **Reasoning Statement:** Option 1	The student builds an argument using the evidence and reasoning provided about how pupils react to different amounts of light.

*** NGSS Topic Bundle Link:** 4.Structure, Function, and Information Processing | Next Generation Science Standards

Key for M-STEP Grade 5 Science
Online Tools Training (OTT) Sample Items

Grade 5 Sample Cluster: Grasshoppers

Topic Bundle: Inheritance and Variation of Traits*

Item #	NGSS Alignment	Key (screenshot for interaction type)	Assessment Claim
Grasshoppers (Part 1)			
6	**LS1.B** **SEP 2**-Devloping and Using Models **CCC 1**-Patterns		The student uses the models to observe patterns relating the similarities and differences in organisms' life cycles.
7	**LS3.A** **SEP 6**-Constructing Explanations and Designing Solutions **CCC 1**-Patterns	**Part A:** b **Part B:** Option 1 and 5	The student claims which offspring is most like a parent and selects two pieces of evidence to support the claim.

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Item #	NGSS Alignment	Key (screenshot for interaction type)	Assessment Claim
8	**LS1.B** **SEP 2**-Devloping and Using Models **CCC 2**-Cause and Effect	**Many eggs are destroyed** ↓ fewer young grasshoppers survive ↓ fewer grasshoppers become adults ↓ less reproduction	The student models the effect of the amount of rainfall in an environment on the grasshopper population.
Grasshoppers (Part 2)			
9	**LS3.B** **SEP 4**-Analyzing and Interpreting Data **CCC 2**-Cause and Effect	**Part A:** **Plant Height (cm)** or **Number of Leaves**	Using the provided data, the student presents the data in graphical form to support the claim that plants are affected by the water in the environment.

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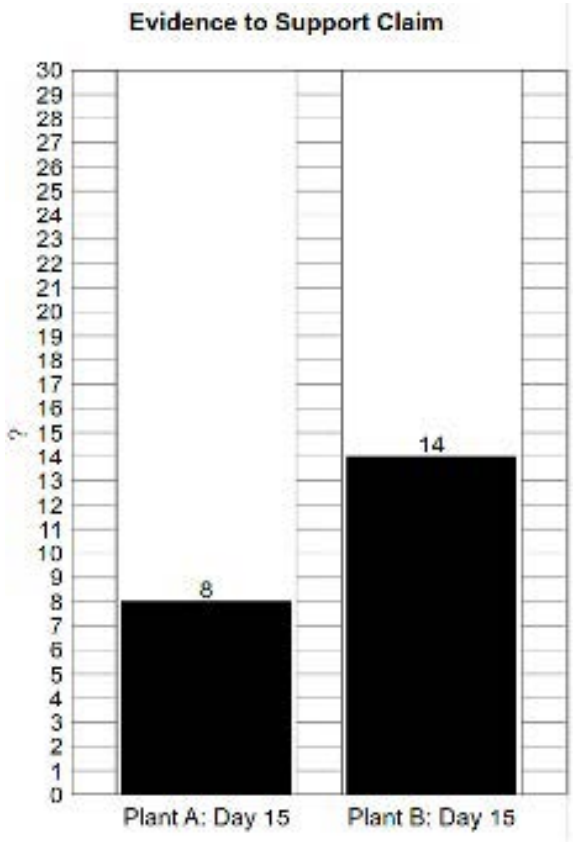
Item #	NGSS Alignment	Key (screenshot for interaction type)	Assessment Claim
9	**LS3.B** **SEP 4**-Analyzing and Interpreting Data **CCC 2**-Cause and Effect	**Part B:** 	Using the provided data, the student presents the data in graphical form to support the claim that plants are affected by the water in the environment.

***NGSS Topic Bundle Link:** [3.Inheritance and Variation of Traits: Life Cycles and Traits | Next Generation Science Standards]