Grade 1 Science: Year at a Glance

UNIT 1: PATTERNS OF CHANGE IN THE SKY Instructional days: 15						
		Learning Goals (Foundation Box)			the	the
	Performance Expectations		Science and Engineering Practices	Crosscutting Concepts	Connections to the CCSS – ELA	Connections to the CCSS – Mathematics
1-ESS1-1	Use observations of the sun, moon and stars to describe patterns that can be predicted.	ESS1.A	Analyzing and Interpreting Data	Patterns	W.1.7 W.1.8	
1-ESS1-2	Make observations at different times of year to relate to the amount of daylight to the time of year.	ESS1.B	Planning and Carrying Out Investigations	Patterns	W.1.7 W.1.8	MP.2 MP.4 MP.5 1.OA.A.1 1.MD.C.4
instruction.	This time frame assumes a 45–60 minute instru	cion block, I	cuchers should calculate	the first actional days b	used on their time	

UNIT 2: CHARACTERISTICS OF LIVING THINGS						tional days: 15
		Learning Goals (Foundation Box)			the	the atics
Performance Expectations		Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Connections to the CCSS – ELA	Connections to the CCSS – Mathematics
1-LS3-1	Make observations to construct an evidence- based account that young plants and animals are like, but not exactly like, their parents.	LS3.A LS3.B	Constructing Explanations and Designing Solutions	Patterns	RI.1.1 W.1.7 W.1.8	MP.2 MP.5 1.MD.A.1
1-LS1-2	Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	LS1.B	Obtaining, Evaluating, and Communicating Information	Patterns	RI.1.1 RI.1.2	1.NBT.B.3 1.NBT.C.4 1.NBT.C.5 1.NBT.C.6
Teacher No	tes					

UNIT 3: MIMICKING ORGANISMS TO SOLVE PROBLEMS					Instruc	tional days: 25
	-	Learning Goals (Foundation Box)			the	the atics
Performance Expectations		Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Connections to the CCSS – ELA	Connections to the CCSS – Mathematics
1-LS1-1*	Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.	LS1.A	Constructing Explanations and Designing Solutions	Structure and Function	W.1.7	
K-2-ETS1-2	Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.	ETS1.B	Developing and Using Models	Structure and Function	SL.2.5	
Teacher Note	es		•		•	
L					atas connection t	

				insti ut	tional days: 20
Performance Expectations		Learning Goals (Foundation Box)			the atics
		Science and Engineering Practices	Crosscutting Concepts	Connections to the CCSS – ELA	Connections to the CCSS – Mathematics
Make observations to construct an evidence- based account that objects can be seen only when illuminated.	PS4.B	Constructing Explanations and Designing Solutions	Cause and Effect	W.1.2 W.1.7 W.1.8 SL.1.1	
Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.	PS4.B	Planning and Carrying Out Investigations	Cause and Effect	W.1.7 W.1.8 SL.1.1	
Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	PS4.A	Planning and Carrying Out Investigations	Cause and Effect	W.1.7 W.1.8 SL.1.1	
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	Make observations to construct an evidence- based account that objects can be seen only when illuminated. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	Make observations to construct an evidence- based account that objects can be seen only when illuminated.PS4.BPlan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.PS4.BPlan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.PS4.A	Make observations to construct an evidence- based account that objects can be seen only when illuminated.PS4.BConstructing Explanations and Designing SolutionsPlan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.PS4.BPlanning and Carrying Out InvestigationsPlan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.PS4.APlanning and Carrying Out Investigations	Make observations to construct an evidence- based account that objects can be seen only when illuminated.PS4.BConstructing Explanations and Designing SolutionsCause and EffectPlan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.PS4.BPlanning and Carrying Out InvestigationsCause and EffectPlan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materialsPS4.APlanning and Carrying Out InvestigationsCause and Effecttes	Make observations to construct an evidence- based account that objects can be seen only when illuminated.PS4.BConstructing Explanations and Designing SolutionsCause and EffectW.1.2 W.1.7 W.1.8 SL.1.1Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.PS4.BPlanning and Carrying Out InvestigationsCause and EffectW.1.7 W.1.8 SL.1.1Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials

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UNIT 5: COMMUNICATING WITH LIGHT AND SOUND Instructional days: 25						
		Learning Goals (Foundation Box)			he	he atics
Performance Expectations		Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Connections to the CCSS – ELA	Connections to the CCSS – Mathematics
1-PS4-4*	Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.*	PS4.C	Constructing Explanations and Designing Solutions		W.1.7	MP.5 1.MD.A.1 1.MD.A.2
K-2-ETS1-1	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	ETS1.A	Asking Questions and Defining Problems		RI.1.1 W.1.6 W.1.8	MP.2 MP.4 MP.5 2.MD.D.10
K-2-ETS1-2	Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.	ETS1.B	Developing and Using Models	Structure and Function	SL.2.5	
Teacher Not	es					