Grade 1 Science Curriculum

Unit:	Earth and Space Sciences
	Earth's Place in the Universe
Unit Essential Questions:	When can you see the full moon? Why do stars come out at night?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Mini-Lessons/Activities	Instructional Materials	Assessments
Moon Phases and Patterns	**3.3.1.A1** **3.3.1.A4** **3.3.1.A5**	phases half moon crescent moon	When does the moon appear as a full moon?	Mystery Science —Moon & Stars lesson 1	*Moon book printout *Pencil *Scissors *Pipe cleaners	*Ask questions *Formative Assessment *Teacher observation *Class discussion
Stars and Daily Patterns	**3.3.1.A1** **3.3.1.A4** **3.3.1.A5**	Big Dipper	Why are stars visible at night but disappear when the sun comes out?	Mystery Science –Moon & Stars Lesson 2	*Big dipper star picture printout *Sky sheet printout *Scissors *Dot stickers *8oz.Paper cups *Push Pins *LED flashlights	*Ask questions *Formative Assessment *Teacher observation *Class discussion

Grade 1 Science Curriculum

Unit:	Life Science
Big Ideas:	All organisms are made of cells and can be characterized by common aspects of their structure and functioning. Organisms have external structures that help them survive, grow and meet their needs.
Unit Essential Questions:	How do organisms live, grow, respond to their environment, and reproduce?

Concept & Pacing	New Emphasis (Pa Core Standard)	Key Vocabulary	Essential Questions	Mini-Lessons/Activities	Instructional Materials	Assessments
Molecules to organisms: Structures and Processes (4-7 days)	**3.3.4.A** **3.3.4.B** **3.1.4.A** **3.2.4.A** **3.2.4.B** **3.2.4.C** **4.7.4.A** **4.7.4.B**	Organisms Structures Grow Movement Observations Parts (roots, leaves, flowers, stems, fruit) Reproduce Survival Survive Behavior Model Behavior Observe Offspring Patterns		*Observe and categorize living and nonliving things by external characteristics. *Make observations and describe the different parts of organisms that help them survive, grow, and meet their needs. *Design a model that replicates the function of an organism's structure. *Observe and determine patterns in behavior of parents and offspring that help offspring survive.	FOSS Mystery Science	*Ask questions *Formative Assessment *Teacher observation *Class discussion S4.B.1.1.2 S4.B.1.1.3 S4.B.1.1.4 S4.B.1.1.1
	3.3.4.C **3.1.7.C** **3.2.4.A** **3.2.4.B** **3.2.4.C** **4.7.4.A** **4.7.4.B** **3.24..D**					*Ask questions *Formative Assessment *Teacher observation *Class discussion S4.B.1.1 S4.B.1.1.1 S4.B.1.1.3 S.4.A.1.1.2 S4.B.1.1.3

Grade 1 Science Curriculum