Title of Unit: Exploring Light and Shadows

This TILT is aligned with the following South Carolina academic standards for two or more content areas:

Science:	Social Studies:	ELA:	Mathematics:
Lights and Shadows:		Inquiry 1.1, 2.1, 3.1,	Measurement and
P.2A.1, P.2A.2, P.2A.3		3.2, 4.1, 4.2, 4.3, 5.1,	Data: MDA. 4.2, 4.4,
		5.2, 5.3	4.5
		Reading Informational	
		Text - 5.1, 5.2, 6.1, 7.1,	
		12.1, 12.3	
		Writing - 1.1, 1.2, 2.1,	
		2.2, 3.2, 4.5	

Connections to one or more Exploratories:

<u>Art:</u> VA1- 1.1, 1.4, 5.2	<u>Music</u> :	<u>Technolog</u> y: ISTE – Creativity and Innovation – 1.B	<u>PE</u> :
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Text Set (This might include children's literature, films, maps, brochures, magazines, websites, and other resources) Essential Questions	See attached sheets What is light? How are shadows created How does light behave wi		
Content Area Vocabulary	shine visible light	artificial light flame reflect	position reflection
	light source sun flashlight fire observation natural light	wood metal mirror cast shadow	
Pre-Writing and Writing Activities	 Create an anchor chart for light sources Create an anchor chart for natural and artificial light. Develop compare/contrast Venn Diagrams to compare and contrast natural and artificial light. Free write – What is light? How do we use light? What are shadows? Flashlight writing Poetry Writing Draw/write about your kaleidoscope picture. 		
Instructional Strategies	 * Respond and reflect about information learned about lights and shadows * Hands-on activities about to explore lights and shadows * Observations * Read Aloud * Questioning and discussion throughout the unit * Anchor Charts * Venn Diagrams * Turn and talks * Use of tools and manipulatives to create shadows, complete experiments; flashlight activity, cave experiment, box light experiment 		
Accommodations, Modalities of Learning, Differentiating Instruction	Multisensory activities will address visual, auditory, and kinesthetic learners and differentiate learning for all students. Students will have opportunities to work collaboratively with partners and in small groups on projects. Students in all areas will have opportunities to excel in their areas of strength. Assignments will be open-ended and will provide flexibility. A plethora of independent and instructional-leveled texts will be provided to meet students varying levels.		

Assessment	Informal – Share time/Turn and Talks/Student work
	Formal – Completion of activity to determine the differences between artificial/natural light sources. - Completion of Word Cloud on ABCya.

Attached:

- 1. Implementation Guide
- 2. Daily Lesson Plans in Learning Cycle