Science Unit Map — Grade 3— Trimester 3

Trimester Focus:

• Light and Sound

<u>Big Ideas:</u>

- Light and sound are forms of energy.
- Light and sound can be described by their properties.
- Light travels in a straight path.
- Vibrations produce sound.

GLCEs	Vocabulary	Resources	Assessment
		(See Curriculum Calendar for Details)	
- Identify light and sound as forms of	light	<u>Textbook</u> : National Geographic - Physical	Light:
energy. (P.EN.03.11)	path of light	Science	<u>Formative:</u> -Monitor discussions on light for student
	sound	- Chapter 4 Lesson 4 (Sound)	understanding.
- Demonstrate that light travels in a straight	sound source	- Chapter 5 (Light)	understanding.
line and that shadows are made by placing	light source		-Check student lab books or science journals for
an object in a path of light. (P.EN.03.21)	forms of energy	Inquiry Book	understanding. Do students make predictions
	vibrations	- See Inquiry Book for student	based on previous experience? Are students
- Describe what happens to light when it	thermometer	investigations	demonstrating increased application of previous
travels from water to air (a straw half in	degrees Celsius		observations to new experiences? Are students
water and half in the air looks bent).	light absorption	<u>Suggested Trade Books:</u>	making connections?
(P.EN.03.22)	light reflection	- <i>Bear Shadow</i> by Frank Asch	
	shadow	- Day Light, Night Light (Let's Read and	<u>Summative</u> :
- Relate sounds to their sources of	pitch	<i>Find Out Series 2)</i> by Franklyn M. Branley	-Predict and draw the shape of a shadow based
vibrations (for example: a musical note	sun as a source of	- Hear! Hear! The Science of Sound by	on the object and the source of light.
produced by a vibrating guitar string, the	energy	Barbara Taylor	-Draw a picture of how a pencil would look
sounds of a drum made by the vibrating	effect	- Light and Sound (Kingfisher You	when dropped into a glass/cup of water.
drum head). (P.EN.03.31)		<i>Knowledge)</i> by Mike Goldsmith	Students explain in writing why the pencil looks
		- Making Musical Things by Ann Wiseman	as it does.
- Distinguish the effect of fast or slow		and Ann Wiseman	
vibrations as pitch. (P.EN.03.32)		- Rubber-Band Banjos and a Java Jive	<u>Sound</u>
		Bass by Alex Sabbeth	<u>Formative</u> :
- Demonstrate how some materials are		- <i>Shadow Magic</i> by Seymour Simon	-Monitor discussion on sound for student
heated more than others by light that shines		- Sounds All Around (Let's Read and Find	understanding.
on them. (P.PM.03.51)		Out Series I) by Wendy Pfeffer	.
		- The Magic School Bus In The Haunted	-Check student lab books or science journals for
- Explain how we need light to see objects:		<i>Museum/House</i> by Joanna Cole	understanding. Do students make predictions based on previous experience? Are students
light from a source reflects off objects and		- Ty's One-man Band by Mildred Walter	demonstrating increased application of previous
enters our eyes. (P.PM.03.52)		and Margot Tomes	observations to new experiences? Are students
			making connections?
		Websites, Video Streaming, & Smart Board	0
		Activities:	<u>Summative</u> :
		- myNGconnect.com	-Create a concept map that shows the concepts
See inquiry and reflection GLCE's		- See grade level resource packet	of sound.
• •		Grade Level Resource Packet:	*Refer to companion document for more
		- See unit: Light and Sound	"Evaluate Student Understanding" information.