

**Southington Public Schools  
Curriculum Map**

**Subject:** Science **Grade:** 5

UNIT TITLE	#1 Sound Energy	#2 Light Energy	#3 Technology & Vision	#4 Senses & Signals	#5 Earth/Moon/Sun	#6 Variables
CONTENT	<b>Sound Energy:</b> <ul style="list-style-type: none"> <li>• Production</li> <li>• Transmission <ul style="list-style-type: none"> <li>• Change Pitch &amp; Volume</li> </ul> </li> </ul>	<b>Light Energy:</b> <ul style="list-style-type: none"> <li>• Transmission</li> <li>• Reflected, Refracted, Absorbed</li> <li>• How we see objects/ colors</li> </ul>	<ul style="list-style-type: none"> <li>• Compare/Contrast</li> <li>• Eye and Camera</li> <li>• Uses/Design of technology tools to enhance vision</li> </ul>	<ul style="list-style-type: none"> <li>• Human Senses:</li> <li>• Structure &amp; Functions</li> <li>• Signals/Stimuli</li> <li>• Nervous System</li> </ul>	<ul style="list-style-type: none"> <li>• Earth Revolution/Rotation</li> <li>• Cycles of Day/Night</li> <li>• Moon Phases</li> </ul>	<b>Controlled Experimentation:</b> <ul style="list-style-type: none"> <li>• Scientific Inquiry</li> <li>• Variables</li> <li>• Design/Conduct Experiments</li> </ul>
STATE STANDARDS	<p>5.1 Sound and light are forms of energy.</p> <ul style="list-style-type: none"> <li>• Sound is a form of energy that is produced by the vibration of objects and is transmitted by the vibration of air and objects.</li> </ul> <p>5a. Explore how sound is produced and transmitted.</p> <p>5b. Explore and explain how pitch and volume can be changed.</p> <p>B INQ.1 Make observations and ask questions about objects.</p> <p>B INQ.2 Seek relevant information in books, magazines and electronic media.</p>	<p>5.1 Sound and light are forms of energy.</p> <ul style="list-style-type: none"> <li>• Light is a form of energy that travels in a straight line and can be reflected by a mirror, refracted by a lens, or absorbed by objects.</li> </ul> <p>B19. Describe how light is absorbed and/or reflected by different surfaces.</p> <p>B20. Describe how light absorption and reflection allow one to see shapes and colors of objects.</p> <p>B INQ.1 Make observations and ask questions about objects.</p>	<p>5.4 Humans have the capacity to build and use tools to advance the quality of their lives</p> <ul style="list-style-type: none"> <li>• Advances in technology allow us to acquire new information about our world.</li> </ul> <p>B24 – Compare and contrast the structures of the human eye with those of the camera.</p> <p>B25 – Describe the uses of different instruments, such as eye glasses, magnifiers, periscopes and telescopes, to enhance our vision.</p>	<p>5.2 Perceiving and responding to information about the environment is critical to the survival of organisms.</p> <ul style="list-style-type: none"> <li>• The sense organs perceive stimuli from the environment and send signals to the brain through the nervous system.</li> </ul> <p>B21 – Describe the structure and function of the human senses and the signals they perceive.</p> <p>B INQ.1 Make observations and ask questions about objects.</p> <p>B INQ.2 Seek relevant information in books, magazines and electronic media.</p>	<p>5.3 Most objects in the solar system are in a regular and predictable motion.</p> <ul style="list-style-type: none"> <li>• The positions of the Earth and moon relative to the sun explain the cycles of day and night, and the monthly moon phases.</li> </ul> <p>B.22 – Explain the cause of day and night based on the rotation of the Earth on its axis.</p> <p>B.23 – Describe the monthly changes in the appearance of the moon, based on the moon's orbit around the Earth</p>	<p>B INQ.1 Make observations and ask questions about objects.</p> <p>B INQ.3 Design and conduct simple investigations.</p> <p>B INQ.4 Employ simple equipment and measuring tools to gather data and extend the senses.</p> <p>B INQ.5 Use data to construct reasonable explanations.</p> <p>B INQ.6 Analyze, critique and communicate investigations using words, graphs and drawings.</p>