## **LINCOLN PUBLIC SCHOOLS** Science Learning Expectations: Grade 6

<b>Strand:</b> Scientific Inquiry	<ul> <li>Big Ideas</li> <li>Scientists need consistent and accurate ways to describe and measure the physical world.</li> </ul>
Students will learn that scientific inquiry, design, and experimentation involve skills	<ul> <li>Key Outcomes</li> <li>Students will demonstrate an understanding that scientific inquiry depends on standardized methods and measurements by using the scientific method to conduct a multi-step experiment.</li> </ul>
necessary to investigate the natural and human-made world.	<ul> <li>Essential Knowledge and Skills</li> <li>Students will be able to: <ul> <li>Formulate a testable hypothesis.</li> <li>Design and conduct an experiment specifying variables to be changed, controlled, and measured.</li> <li>Select appropriate tools and technology (e.g., calculators, computers, thermometers, meter sticks, balances, graduated cylinders, and microscopes), and make quantitative observations.</li> <li>Present and explain data and findings using multiple representations, including tables, graphs, mathematical and physical models, and demonstrations.</li> <li>Draw conclusions based on data or evidence presented in tables or graphs, and make inferences based on patterns or trends in the data.</li> <li>Communicate procedures and results using appropriate scientific and technological terminology.</li> </ul> </li> </ul>