

**Urbana School District #116**  
**THIRD GRADE CORE EXPECTATIONS**

**SCIENCE**

Illinois State Goal 11: Understand the processes of scientific inquiry and technological design to investigate questions, conduct experiments and solve problems.

State Standard	District Core Expectations
11A: Know and apply the concepts, principles, and processes of scientific inquiry.	<ul style="list-style-type: none"> <li>Define the term “scientific process”</li> <li>Use the scientific process to ask questions, create an experiment and solve problems</li> <li>Make predictions which are based on observations rather than random guessing</li> </ul>
11B: Know and apply the concepts, principles and processes of technological design.	<ul style="list-style-type: none"> <li>Describe ways in which people use technology in their everyday lives</li> </ul>

Illinois State Goal 12: Understand the fundamental concepts, principles and interconnections of the life, physical and earth/space sciences.

State Standard	District Core Expectations
12A: Know and apply concepts that explain how living things function, adapt and change.	<ul style="list-style-type: none"> <li>Describe the life cycles of plants and animals</li> <li>Identify stages in the life cycles of plants and animals</li> <li>Identify factors that affect plant and animal growth and reproduction</li> </ul>
12B: Know and apply concepts that describe how living things interact with each other and with their environment.	<ul style="list-style-type: none"> <li>Describe the different biomes found on Earth</li> <li>Identify plants and animals found in specific biomes</li> <li>Identify adaptations that give living things the ability to survive in its biome</li> <li>Describe how a living thing interacts with its environment</li> </ul>
12C: Know and apply concepts that describe properties of matter and energy and the interactions between them.	<ul style="list-style-type: none"> <li>Name the properties of solids, gases, liquids, and plasma</li> <li>Understand that water has freezing and boiling points</li> <li>Identify sources of various energy types: including mechanical, heat, light, sound, and electrical</li> </ul>
12D: Know and apply concepts that describe force and motion and the principles that explain them.	<ul style="list-style-type: none"> <li>Tell how sound waves are produced by vibrating objects</li> <li>Show that different vibrating objects produce different sounds</li> </ul>
12E: Know and apply concepts that describe the features and processes of the Earth and its resources.	<ul style="list-style-type: none"> <li>Describe the difference between renewable and non-renewable resources</li> <li>List possible causes of air and water pollution</li> </ul>

<p>12F: Know and apply concepts that explain the composition and structure of the universe and Earth's place in it.</p>	<ul style="list-style-type: none"> <li>• Define the word "planet"</li> <li>• State the order of the planets' position in the solar system</li> <li>• Describe the relationship between the Earth and its the moon</li> <li>• List the similarities and differences among the Earth, moon, sun, and stars</li> <li>• Explain how to find the north star in the night sky</li> <li>• Explain why stars and the moon appear to move at the earth rotates</li> <li>• Describe what happens as the earth rotates and as it revolves around the sun</li> <li>• Name several types of stars</li> </ul>
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Illinois State Goal 13: Understand the relationships among science, technology and society in historical and contemporary contexts.

State Standard	District Core Expectations
<p>13A: Know and apply the accepted practices of science.</p>	<ul style="list-style-type: none"> <li>• Select and use tools and equipment to gather data</li> <li>• Use scientific data to make reasonable explanations</li> <li>• Describe why accuracy and detail are important when recording data</li> <li>• Create charts, graphs and pictures from scientific data</li> </ul>
<p>13B: Know and apply concepts that describe the interaction between science, technology and society.</p>	<ul style="list-style-type: none"> <li>• Describe ways in which science and technology affect people's everyday lives</li> </ul>

Revised 7/06