

**Urbana School District #116**  
**FIRST 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>• Use equipment and materials safely</li> <li>• Gather information and write it down clearly</li> <li>• Find information on a chart</li> <li>• Use scales, magnets and magnifying lenses</li> </ul>
11B: Know and apply the concepts, principles and processes of technological design.	NA

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>• Compare living and non-living things by looking at how they look and live</li> <li>• Identify plant structures and needs for living</li> <li>• Tell what things help seeds sprout in to plants</li> <li>• Group plants and animals by size, color, and shape, and explain his/her grouping rules</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>• Tell how plants and animals depend on each other to survive</li> <li>• Explain why animals and plants found in one part of the world are different from those found in another</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>• Group items by how much they weigh; how big they are; if they are liquid, solid or gas; how they feel; how they smell; and if they float or not.</li> <li>• Tell the difference between a liquid and a solid</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 made by vibrating objects</li> <li>• Identify sources of light and energy</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>• Point to land, oceans, the north and south poles, and the equator on a globe or a map</li> <li>• Describe the different materials that make up the earth and its atmosphere</li> <li>• Tell ways to recycle</li> </ul>
12F: Know and apply concepts that explain the composition and structure of the universe and Earth's place in it.	<ul style="list-style-type: none"> <li>• Identify the features/characteristics of the Earth, moon, and sun</li> <li>• Compare and contrast the earth, moon, and sun</li> <li>• Tell how night and day are because of the rotation of the earth</li> </ul>

Illinois State Goal 13: Understand the relationships among science, technology and society in historical and contemporary contexts.

State Standard	District Core Expectations
13A: Know and apply the accepted practices of science.	<ul style="list-style-type: none"><li data-bbox="667 317 1370 344">• Write information in charts, in journals, or on computers</li></ul>
13B: Know and apply concepts that describe the interaction between science, technology and society.	<ul style="list-style-type: none"><li data-bbox="667 380 1375 407">• List ways that technology is used at school and at home</li></ul>

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