

**Urbana School District #116**  
**EARLY CHILDHOOD CORE EXPECTATIONS**

*Please note: The following Core Expectations are in draft form, and the curriculum committee will be updating them frequently.*

**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>• Follow suitable safety procedures in school</li> <li>• Show scientific processes by asking questions</li> <li>• Use senses to explore and observe materials and natural phenomena</li> <li>• Collect, describe and record information</li> <li>• Use scientific tools for investigation (e.g., thermometers, balance scales, magnifying glasses)</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>• Investigate and categorize living things in the environment</li> <li>• Describe and compare basic needs of living things</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>• Show an awareness of changes that occur in themselves and their 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>• Make comparisons among observable everyday objects</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>• Describe the effects of forces of nature (e.g., wind, gravity, magnetism)</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>• Use common weather related vocabulary</li> <li>• Participate in recycling their environment</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 basic concepts associated with night and day</li> <li>• Identify the seasons</li> <li>• Understand the characteristics of each season</li> <li>• Associate events with certain seasons</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>• Show scientific processes by asking questions</li> </ul>
13B: Know and apply concepts that describe the interaction between science, technology and society.	NA

Revised 2/3/06