

Urbana School District #116
SECOND 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"> • Use science equipment and materials safely • Make educated guesses which are based on my observations • Explain events that are observed
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"> • Classify living things based on how they are similar • Explain that each part of a plant has a purpose • Identify examples of animals that vertebrates and invertebrates • Tell the characteristics of mammals, birds; fish amphibians; and reptiles
12B: Know and apply concepts that describe how living things interact with each other and with their environment.	<ul style="list-style-type: none"> • Explain how living things change because of their environment
12C: Know and apply concepts that describe properties of matter and energy and the interactions between them.	<ul style="list-style-type: none"> • List different sources of energy and things they power • Build and test simple circuits with batteries
12D: Know and apply concepts that describe force and motion and the principles that explain them.	<ul style="list-style-type: none"> • Tell how forces produce actions and reactions • Identify types of simple machines and tell what they are used for
12E: Know and apply concepts that describe the features and processes of the Earth and its resources.	<ul style="list-style-type: none"> • Name several different type of precipitation • Name the different parts of weather • Identify different weather events • Tell about local weather conditions and patterns • Tell ways that materials can be reduced, reused, and recycled • Understand that resources can be either renewable or nonrenewable • Name different types of pollution
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"> • Explain that changes in the seasons are because of the earth's tilted axis and rotation around the sun

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="667 365 1357 394">• Collect, record, and organize data from an experiment
13B: Know and apply concepts that describe the interaction between science, technology and society.	<ul style="list-style-type: none"><li data-bbox="667 432 1349 489">• List the ways that technology is used at home and at school

Revised 7/06