

Science PreKindergarten 4

**Illinois Early Learning and Development Standards**

- 11.A Science and Engineering practices
- 12.A Living things grow and change
- 12.B Living things rely on environment and others to live and grow
- 12.C Matter: physical properties of objects
- 12.D Force and Motion
- 12.E Earth: characteristics of earth, water, and air; take care of planet
- 12.F Weather: changes and seasons
- 13.A Rules to follow when investigating and exploring
- 13.B Tools and technology to assist with science and engineering investigations

**Technology**

SMART Board, Elmo, laptop, iPad, YouTube, iPad apps

Standards	Essential Questions	Content	Skills	Assessment	Resources
<b>Scientific Skills</b> 11.A 13.A 13.B	<b>Scientific Skills</b> How do scientists work?	<b>Scientific Skills</b> -Tools and Safety -Observation -Graph -Model -Question -Problem Solving -Conclusion	<b>Scientific Skills</b> -Use tools properly -Initiate curiosity and interest -Ask questions -Communicate observations -Record and interpret information on graphs -Build and label models -Conduct experiments -Solve problems and draw conclusions	<b>Scientific Skills</b> -Teacher observation -Discussion	<b>Scientific Skills</b> -Lab Kits (teacher created) -Non-fiction and fiction books - <i>Weekly Reader</i> by Scholastic
<b>Living Things</b> 12.A 12.B	<b>Living Things</b> How do living things grow and change?	<b>Living Things</b> -Life cycle -Basic needs -Environment	<b>Living Things</b> -Observe and communicate the stages of the life cycle -Identify and explain parts and functions of living things -Name the basic needs of living things -Show an understanding of living things and environments	<b>Living Things</b> -Teacher observation -Discussion	<b>Living Things</b> -Lab Kits (teacher created) -Non-fiction and fiction books - <i>Weekly Reader</i> by Scholastic
<b>Physical Properties of Objects</b> 12.C	<b>Physical Properties of Objects</b> How are objects identified and described?  How can objects be changed?	<b>Physical Properties of Objects</b> -Properties -Changes	<b>Physical Properties of Objects</b> -Describe the properties of objects using the senses -Explain changes in matter	<b>Physical Properties of Objects</b> -Teacher observation -Discussion	<b>Physical Properties of Objects</b> -Lab Kits (teacher created) -Non-fiction and fiction books - <i>Weekly Reader</i> by Scholastic

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<b>Weather and Seasons</b> 12.F	<b>Weather and Seasons</b> What is weather and how does it change with the seasons?	<b>Weather and Seasons</b> -Elements -Conditions -Four Seasons	<b>Weather and Seasons</b> -Utilize weather vocabulary -Report weather -Recognize how weather affects daily activities -Identify and describe the four seasons	<b>Weather and Seasons</b> -Daily Weather Report -Journal	<b>Weather and Seasons</b>