Unit I:Weather

Content Area: **Science**
Course(s): **Science K**
Time Period: **September**
Length: **September - November**
Status: **Published**

Enduring Understandings

Continuous patterns occur in nature (seasons).

Seasons play a role in the states of matter.

Meteorologists predict weather patterns.

Essential Questions

When does water go from a liquid to a solid?

How can elements stay in certain forms (i.e. ice cubes, ice cream)?

How can I use the forecast to get dressed in the morning?

What will the weather be like next week? Children will make predictions about the weather next month. Students will check predictions to see if they were correct.

Content

Literature:

Come on, Rain! by Karen Hesse and Jon Muth

Hurricane by David Wiesner

Feel the Wind Let's Read & Find Out Science by Arthur Dorros

Flash, Crash, Rumble, & Roll by Franklyn Branley

Oh Say Can You Say What's the Weather Today? by Tish Rabe

On the Same Day in March A Tour of the World's Weather by Marilyn Singer

Twister by Darleen Bailey Beard

The Cloud Book by Tomie de Paola

Ready to Read Weather Series by Marion Bauer:

Wind

Snow

Clouds

Rain

Exploring the Elements Series by Etta Kaner & Marie La France

The Story of Snow The Science of Winter's Wonder by Mark Cassino

Thunder-Boomer! by Shutta Crum

Clouds by Anne Rockwell

Seymour Simon Weather Books by "the dean of children's science writers"

Sector 7 by David Wiesner

Inside a Hurricane Magic School Bus Series by Joanna Cole

Internet Resources:

Science Kids

- http://www.sciencekids.co.nz/gamesactivities/gases.html

Scholastic

- http://teacher.scholastic.com/activities/studyjams/matter_states/

Weather Channel for Kids

- http://www.theweatherchannelkids.com/weatherED/

- http://www.learninggamesforkids.com/weather_games.html

https://www.youtube.com/watch?v=RmSKsyJ15yg

https://www.youtube.com/watch?v=7UckUHeWXD0

Skills

Name ways that water changes through the 3 states of matter (i.e., frozen lakes, steam from soup, ice cube melting in a glass).

Observations and investigations form a basis for young learners' understanding of the properties of matter.

Observations and investigations form the basis for young learners' understanding of weather and climate.

Discuss different types of weather as well as the activities that you can do.

Children will record weather for a month on a chart.

Standards

SCI.K	Weather and Climate
SCI.K-ESS3-2	Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.
SCI.K-ESS2-1	Use and share observations of local weather conditions to describe patterns over time.
SCI.K-PS3-1	Make observations to determine the effect of sunlight on Earth's surface.
SCI.K-PS3-2	Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.