

# Unit I:Weather

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

## **Enduring Understandings**

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Continuous patterns occur in nature (seasons).

Seasons play a role in the states of matter.

Meteorologists predict weather patterns.

## **Essential Questions**

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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**

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### **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/](http://teacher.scholastic.com/activities/studyjams/matter_states/)

Weather Channel for Kids

✖ <http://www.theweatherchannelkids.com/weatherED/>

✖ [http://www.learninggamesforkids.com/weather\\_games.html](http://www.learninggamesforkids.com/weather_games.html)

✖ <https://www.youtube.com/watch?v=RmSKsyJl5yg>

✖ <https://www.youtube.com/watch?v=7UckUHeWxD0>

## **Skills**

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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**

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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.