

# Fall in LOVE with NEW NASA eClips Resources!



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## Videos for your classroom about seasons, clouds, and winter!

What better time to investigate 3-5 grade NASA eClips resources on seasons and clouds and 6-12 grade resources on winter!

### Elementary: Seasons & Clouds

Help your students better understand what causes seasons and the role of clouds.

ESS2.A: Earth Materials and Systems



#### Our World: Sun's Position

Learn how our sun's position in the sky changes due to Earth's rotation, revolution and tilt. Experts Dr. Alex Young and Dr. Nicki Viall engage students as they explain the Earth-sun relationship.

### NASA Spotlight: Cloud Interactive Lesson



This lesson develops vocabulary and uses a student-produced video to confront the misconception that the only purpose of clouds is to produce precipitation.



To learn more about clouds, check out:

#### Our World: Cloud Inspectiono

Find out why scientists and meteorologists study clouds and what tools they use to collect data about the effect of clouds on Earth's climate.

#### Our World: Cool Clouds

Learn how clouds are formed and watch an experiment to make a cloud using liquid nitrogen.

#### Our World: What is a Cloud?

This NASA video segment describes the different types of clouds and cloud formation. The relationship between clouds and weather on Earth is demonstrated.

### Secondary: Winter

Students investigate the abiotic factors and how/why scientists study ice.

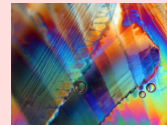
ESS2.C: The Roles of Water in Earth's Surface Processes



#### Real World: History of Winter - Abiotic Conditions

Join scientists and teachers as they learn how to measure some of the abiotic conditions of winter. Find out about latent heat, how thermochrons can be used to collect data points and the importance of snow : water equivalents.

**Looking for a lesson plan?** NASA's Real World: Abiotic Conditions helps students learn about the freezing point of distilled water and solutions!



#### Educator Guide: NASA Launchpad: The Colors of Ice

In this lesson, students are introduced to the topics of polarized light and birefringence by using polarizing films to examine the crystal structure of ice.

**Short on time?** Try NASA Guidelitte: The Colors of Ice for a shorter activity!

#### NASA Launchpad: NASA's History of Winter Program



What can measuring the density of snow and diagramming snowflakes teach us about the cryosphere and Earth's global climate system? NASA's History of Winter program gives teachers opportunities to conduct real world research.

## Need STEM resources for the spring?

Visit our newly redesigned website at [nasaclips.arc.nasa.gov](http://nasaclips.arc.nasa.gov) to find 250+ FREE resources, including STEM lesson plans, videos, and activities for K-12 students!

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