



# NOAA Boulder Teaching Resources: 3<sup>rd</sup> Grade Guide



## Student Activities

[Adjusting to Climate Extremes](#) Story Map: Learn some of the ways water is changing in the Arctic, ocean, and atmosphere

[Space Weather](#) Story Map: Learn how magnetic fields from the sun affects the earth

Printable Activities: [Climate vs Weather](#)  
[Weather Safety Activity](#)  
[US 30 year climate maps](#)

Beat the Uncertainty Game

[Instructions](#), [Checklist](#), [Booklet](#)

## Videos

### [Ask a Scientist:](#)

How do you study climate?  
What can we learn from tree rings?  
What are tree cores?  
What are solar flares?  
What causes floods?  
Why does it get so cold in the winter?

### [Do You NOAA:](#)

Effects of Space Weather  
Floods, Drought and Climate Change

### [Building Smart](#)

See how Fort Collins plans for future floods

## SOS Explorer Mobile

Science on a Sphere Explorer Mobile is a free app from NOAA. Put it on a Chromebook or tablet [here](#).

**Climate Model** See projected changes in precipitation and temperature

**Changing Climate, Changing Ocean** (SOS movie)

**Hurricane Tracks: 1950-2020** Look at 70 years of hurricanes

**Forecast: Tropical Cyclones** (SOS movie)

**Floods with Rivers** See the location of 9 years of floods all around the world

**Flow: Currents and Climate** (SOS movie) Watch how the ocean affects climate on Earth

## Meeting the Standards

### Standard

### NOAA Science

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|---|--|
| <ul style="list-style-type: none"> <li>Objects in contact exert forces on each other; electric and magnetic forces between a pair of objects do not require contact.</li> </ul>               | <ul style="list-style-type: none"> <li>Magnetic fields from space weather events have impacts on earth's electric grid and communication.</li> </ul>               |
| <ul style="list-style-type: none"> <li>Climate describes patterns of typical weather conditions over different scales and variations; historical weather patterns can be analyzed.</li> </ul> | <ul style="list-style-type: none"> <li>Scientists compare current climate and weather conditions to historic climate trends.</li> </ul>                            |
| <ul style="list-style-type: none"> <li>A variety of weather hazards result from natural process; humans cannot eliminate weather-related hazards but can reduce their impacts.</li> </ul>     | <ul style="list-style-type: none"> <li>NOAA forecasters and scientists help warn and prepare the public for impactful weather and space weather events.</li> </ul> |

Request a Virtual Visit with a NOAA Boulder Scientist [here](#).



# NOAA Boulder

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