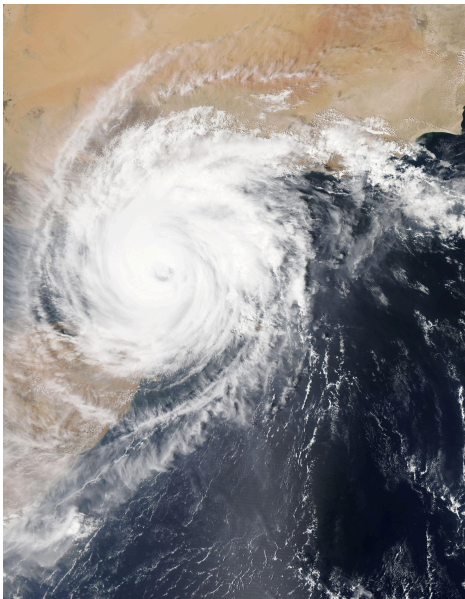


## Science Sunday: Extreme Weather and Natural Disasters

<https://unsplash.com/photos/fQM8cbGY6iQ>



<https://unsplash.com/photos/i9w4Uy1pU-s>



## **Read About It**

Severe Weather 101: <https://www.nssl.noaa.gov/education/svrwx101/>

How Weather Works: <https://scied.ucar.edu/weather>

Effects of Extreme Weather:

<https://www.dkfindout.com/us/earth/weather/effects-extreme-weather/>

### Tornadoes:

- National Oceanic and Atmospheric Administration - Tornadoes: <https://www.noaa.gov/education/resource-collections/weather-atmosphere/tornadoes>
- National Geographic Kids: Tornado Facts: <https://www.natgeokids.com/uk/discover/geography/physical-geography/tornado-facts/>
- Chasing Tornadoes (Video available in English and Spanish) <https://cptv.pbslearningmedia.org/resource/ess05.sci.ess.watcyc.chasing/chasing-tornadoes/>

### Tsunamis:

- National Oceanic and Atmospheric Administration - Tsunamis: <https://www.noaa.gov/education/resource-collections/ocean-coasts/tsunamis>
- National Geographic Kids: Tsunami Facts: <https://www.natgeokids.com/uk/discover/geography/physical-geography/tsunamis/>

### Hurricanes:

- National Oceanic and Atmospheric Administration - Hurricanes: <https://www.noaa.gov/education/resource-collections/weather-atmosphere/hurricanes>
- How Do Hurricanes Form? <https://spaceplace.nasa.gov/hurricanes/en/>
- How Does a Hurricane Form? <https://scijinks.gov/hurricane/>

### Floods

- What Can Cause Severe Flooding? <https://scijinks.gov/colorado-flooding/>
- National Geographic Kids: What Causes Flooding? <https://www.natgeokids.com/uk/discover/geography/physical-geography/causes-of-floods/>

## El Nino/La Nina

- <https://spaceplace.nasa.gov/la-nina/en/>
- <https://climatekids.nasa.gov/el-nino/>

## Volcanic Eruptions

- Fun Volcano Facts:  
<https://www.sciencekids.co.nz/sciencefacts/earth/volcano.html>
- NASA What is a Volcano? <https://spaceplace.nasa.gov/volcanoes2/en/>
- TIME for Kids: What Are Volcanoes?  
<https://www.timeforkids.com/g56/volcanoes/>

## Earthquakes

- U.S. Geological Survey: Earthquakes for Kids:  
<https://earthquake.usgs.gov/learn/kids/>
- FindOut! Earthquakes:  
<https://www.dkfindout.com/us/earth/earthquakes/>

## Blizzards

- Mr. Nussbaum Weather Events - Blizzards:  
<https://mrnussbaum.com/blizzards-weather-events>
- Science News for Students - The Many Faces of Snowstorms:  
<https://www.sciencenewsforstudents.org/article/many-different-snowstorms-science-weather>

## Wildfires

- Smokey for Kids <https://smokeybear.com/en/smokey-for-kids>
- Weather Whiz Kids - Wildfires:  
<http://www.weatherwizkids.com/weather-wildfire.htm>

## **Watch, Listen & Learn**

- National Geographic Kids Volcano videos:  
<https://www.youtube.com/watch?v=Xtkys3-T-Y8>
- Earthquakes & Tsunamis for Kids:  
<https://www.youtube.com/watch?v=Q-v-G1iL67w>
- National Geographic Kids Blizzards videos:  
<https://www.youtube.com/watch?v=H55Os1kRUCI>
- National Geographic Kids Talk About Tornadoes videos:  
<https://www.youtube.com/watch?v=HmONWtpzRq4>

- Weather Videos:  
[https://scied.ucar.edu/learning-zone/videos?field\\_learning\\_zone\\_category\\_tid=2](https://scied.ucar.edu/learning-zone/videos?field_learning_zone_category_tid=2)
- Video of Hurricane Katrina as it looked from space:  
<https://spaceplace.nasa.gov/hurricanes/en/#/review/hurricanes/hurricane-katrina.mp4>
- High tech weather satellites, simulators, and more:  
<https://scijinks.gov/menu/media/>
- Zooming in on Future Hurricanes (National Center for Atmospheric Research):  
[https://www.youtube.com/watch?v=4FtWesDME0o&list=PLKOf8qv7lwLb7hA\\_VKDWwfv-wCtiI7c8L&index=4&t=0s](https://www.youtube.com/watch?v=4FtWesDME0o&list=PLKOf8qv7lwLb7hA_VKDWwfv-wCtiI7c8L&index=4&t=0s)
- Not Your Average Aircraft: A Mobile Laboratory for Weather Research:  
[https://www.youtube.com/watch?v=l8vsFR\\_KIYg&list=PLKOf8qv7lwLb7hA\\_VKDWwfv-wCtiI7c8L&index=10](https://www.youtube.com/watch?v=l8vsFR_KIYg&list=PLKOf8qv7lwLb7hA_VKDWwfv-wCtiI7c8L&index=10)
- Earthquake Animations:  
[https://www.usgs.gov/natural-hazards/earthquake-hazards/science/earthquake-animations?qt-science\\_center\\_objects=7#qt-science\\_center\\_objects](https://www.usgs.gov/natural-hazards/earthquake-hazards/science/earthquake-animations?qt-science_center_objects=7#qt-science_center_objects)

## **Play & Learn**

### Experiments

- Tornado in a Bottle:  
<https://www.sciencekids.co.nz/experiments/makeatornado.html>
- Make a Crystal Snowflake:  
<https://www.sciencekids.co.nz/experiments/snowflake.html>
- Earthquake Waves:  
<https://www.kids-earth-science.com/elementary-science-experiment.html>
- Jell-O Earthquake:  
[https://www.teachengineering.org/activities/view/cub\\_natdis\\_lesson03\\_activity1](https://www.teachengineering.org/activities/view/cub_natdis_lesson03_activity1)
- Mini-Landslide:  
[https://www.teachengineering.org/activities/view/cub\\_natdis\\_lesson05\\_activity1](https://www.teachengineering.org/activities/view/cub_natdis_lesson05_activity1)
- Vinegar Volcano:  
<https://www.sciencekids.co.nz/experiments/vinegarvolcano.html>

- Hurricane Strength and Water Depth-Wind Speed: <https://sciencing.com/hurricane-experiments-kids-8615478.html>
- El Nino Wind-Driven Currents: <https://www.noaa.gov/education/resource-collections/special-topics/hands-on-science-activities/ocean-motion-wind-driven-currents>
- Create a Portable Cloud, Twister in a Jar, Make It Rain: <http://eo.ucar.edu/webweather/activities.html>

### Games

- SciJinks (including Tornado Simulator, Hurricane Hero, Make Lightning with ZAP!, and more!) <https://scijinks.gov/menu/games/>
- Weather Word Cross: <https://spaceplace.nasa.gov/weather-words/en/>
- Wild Weather Adventure, Whirlwind Disaster, Slyder: The Art of Weather: <https://climatekids.nasa.gov/menu/play/>
- Weather Games and Simulations: [https://scied.ucar.edu/games?field\\_learning\\_zone\\_category\\_tid=2](https://scied.ucar.edu/games?field_learning_zone_category_tid=2)

### Fun Activities

- Weather.gov Word searches, connect the dots, coloring and more! [https://www.weather.gov/media/hun/outreach/kids/color\\_book/Coloring\\_book\\_interior.pdf](https://www.weather.gov/media/hun/outreach/kids/color_book/Coloring_book_interior.pdf)
- Owlie Skywarn's Weather Book (from American Red Cross & FEMA): info, puzzles, quizzes, fill-in-the-blanks <https://www.weather.gov/media/owlie/Owlie11.pdf>
- The bad weather joke machine: <https://scijinks.gov/joke/>
- FEMA Disaster-Preparedness Activity Books:
  - [https://www.fema.gov/media-library-data/1529697264473-a5db8ca59fe98c307545e5f5e5aba460/FEMA\\_PrepWithPedro\\_508.pdf](https://www.fema.gov/media-library-data/1529697264473-a5db8ca59fe98c307545e5f5e5aba460/FEMA_PrepWithPedro_508.pdf)
  - <https://www.fema.gov/pdf/library/color.pdf>
- Severe Weather Coloring Pages: <https://coloringpagesonly.com/pages/a-severe-weather>