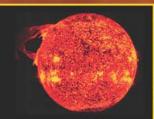
NATIONAL GEOGRAPHIC ENTERTAINMENT PRESENTS

HE SOLAR SYSTEM

YOU'LL BE GLAD YOU LIVE ON EARTH.











NATIONAL GEOGRAPHIC ENTERTAINMENT PRESENTS "WILDEST WEATHER IN THE SOLAR SYSTEM" A DAY'S END PICTURES PRODUCTION MARRATED BY MICHAEL TRUCCO WHITTEN BY LAWRENCE GAY EXECUTIVE PRODUCED LISA TRUITT PRODUCED BY JINI OURR VISUAL EFFECTS SUPERVISOR ANTOINE OURR EDITED BY ANDY YAMADA MUSIC COMPOSED BY CATALIN MARIN SOUND DESIGN BRIAN EIMER







Educator Resources Overview

About the show

Join National Geographic on a spectacular journey to witness the most beautiful, powerful, and mysterious weather phenomena in the solar system. From a storm the size of a 100-megaton hydrogen bomb, to a 400-year-old hurricane, to a dust tempest that could engulf entire planets, you'll be glad you live on Earth!

Education Resources

National Geographic Education has developed activities to bring students grades 2-8 content about the Earth-sun connection and extreme weather on Earth and other planets in our solar system to your classroom. Explore this collection to find hands-on multimedia activities, worksheets, lessons, interactive whiteboard and more!

Available Educator Resources

Classroom Posters and Teacher Guides

- The inner and outer planets have some of the wildest weather in our solar system. Use the teacher guides to engage students with two posters that are perfect for the classroom.

Online Lessons and Activities

- Hands on Activities for Grades 3-8
 - Suite of 6 activities for use in the classroom and beyond. Standards-based.

• Lessons for Grades 2-5

- Students investigate extreme weather on Earth and other planets, learn about instruments used to measure weather, and design a space probe that will gather weather information on a planet.

Lessons for Grades 6-8

- Students explore the difference between weather and climate, analyze environmental conditions on Earth and other planets, and design a probe that can withstand extreme weather on a planet.

Interactive Whiteboard

 Learn about the solar system and the wicked weather in the solar system with interactive content for Promethean whiteboards.

Companion Game

 Build space probes that will withstand the extreme weather conditions on each of our solar system's planets. Learn about weather and space while you play this online game!

Image galleries, videos and interactives

- Multi-media resources complement the *Wildest Weather in the Solar System* activities and lessons. Additional videos and interactives can be found at http://beta.education.nationalgeographic.com/education/program/wildest-weather-solar-system/

Visit <u>www.wildestweathershow.com</u> for links to all resources and to find a theater in your market.







COMPANION POSTERS AND TEACHER GUIDES

Use visual reference to enhance your solar system lessons with these classroom posters.



Contact your theater for a print copy of this poster!

An electronic copy of the "Saturn's Wildest Weather" poster can be found at http://images.nationalgeographic.com/wpf/media-content/file/Saturns-Wildest-Weather-2pg-cb1287075737.pdf



An electronic copy of the "Inner and Outer Planets" poster can be found at http://images.beta.education.nationalgeographic.com/wpf/media-content/file/InnerOuter_Planets-cb1315428501.pdf

Use the companion Teacher Guide found in the appendix and online at: http://images.beta.education.nationalgeographic.com/wpf/media-content/file/PioneerPathfinder TG Grades2 5-cb1315428602.pdf to extend classroom learning.







MULTI-MEDIA STEM-BASED RESOURCES

Online STEM Activities

The online education resources, created to complement the themes of *Wildest Weather in the Solar System*, are standards-based materials developed to engage students in STEM concepts. The activities help bring content about extreme weather on Earth and other planets in our solar system to the classroom.

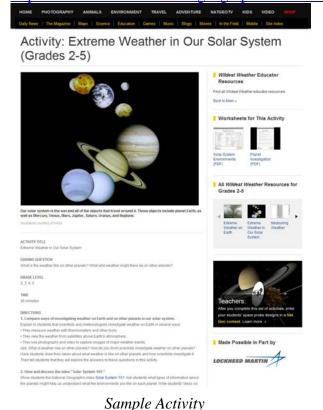
Activities and lessons are available for grades 2-5 and 6-8. Each activity contains all the related content (photos, worksheets, links) for that activity, or a teacher is able to mix and match from the individual resources to customize their own curriculum.

Activity themes include:

- Extreme Weather on Earth
- Extreme Weather in Our Solar System
- Measuring Weather
- Space Probes
- Design a Space Probe

The online resources can be found at

http://beta.education.nationalgeographic.com/education/program/wildest-weather-solar-system/





Companion Photo Gallery







Interactive Whiteboard

The student benefits of interactive whiteboard lessons are numerous and the ability to integrate videos, photography, interactive diagrams and more create a robust learning experience. In their daily lives, students are consuming more media than ever before. By tapping into a medium that excites them, we see a positive impact on material retention.

Three interactive whiteboard lessons are available to complements the suite of resources developed for this program tying in the themes of weather in the solar system as well as probe development and relevant instruments. Photos and videos embedded within the lessons allow students to see a probe's launch rather than just reading about it.

Interactive whiteboard lessons are developed for Promethean ActivBoards and are free to teachers.

Saturn's Wildest Weather

http://www.prometheanplanet.com/en-qb/Resources/Item/66259/a-national-geographic-lesson-





Wildest Weather in the Solar System

http://www.prometheanplanet.com/en/Resources/Item/109342/wildest-weather-in-the-solar-system





Earth's Magnetospheres and Auroras

 $\frac{http://beta.education.nationalgeographic.com/education/multimedia/earths-magnetosphere-and-auroras/?ar_a=1\&ar_r=999$









COMPANION GAME

Inspired by *Wildest Weather In the Solar System*—National Geographic's original production for planetariums—Wildest Weather the game takes you into the future to lead a crucial mission on the hypothetical space probe, Erion. Choose your materials carefully and build probes that will withstand the extreme weather conditions on each of our solar system's planets. If you build incorrectly, your probes will be destroyed!

Play now and become the first hero to conquer some of the universe's wildest weather. http://movies.nationalgeographic.com/movies/wildest-weather/game/











APPENDIX

A. Teacher Guide to use as companion to "Inner and Outer Planets" Classroom Poster

Your feedback is important to us!

After reviewing the resources please complete a short survey to help us better the materials we provide.

https://www.surveymonkey.com/s/Z58T9FM



