My NASA Data - Interactive Models

Safely Observing the Sun

Grade Band

- 6-8
- 9-12

Time

- 50 minutes

Directions

Remember to never look directly at the Sun without proper safety equipment.

Use the slide deck to look at NASA images and visualizations of space weather.

1. Open the "Safely Observing the Sun" Interactive Slide Deck.
2. Use the slides in edit mode in order to manipulate the slides.
3. Build a pinhole projector using the instruction in the slide deck.
4. Go outside and make a Sun observation with your pinhole projector. Document your observation in the slide deck.

Teacher Note

Teachers who are interested in receiving the answer key, please complete the Teacher Key Request and Verification Form. We verify that requestors are teachers prior to sending access to the answer keys as we've had many students try to pass as teachers to gain access.

This product is supported by the NASA Heliophysics Education Activation Team (NASA HEAT), part of NASA's Science Activation portfolio.

NGSS Three Dimensional Learning

NGSS Disciplinary Core Ideas

- PS2A: Forces and Motion
- PS4A: Wave Properties
- ESS1A: The Universe and its Stars
- ESS1B: Earth and the Solar System

Crosscutting Concepts

- Scale, Proportion, and Quantity
- Systems and System Models

Science and Engineering Practices

- Developing and Using Models

Learning Objectives

- Students will build and use a pinhole projector to make observations of the Sun.

Essential Questions

1. How do you safely observe the Sun?

Google Slide interactive Files

Safely Observing the Sun Slides