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 <u>Teacher Key Request</u> and <u>Verification Form</u>. 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.

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NGSS Three Dimensional Learning

NGSS Disciplinary Core Ideas

- PS2A: Forces and Motion
- PS4A: Wave Properties
- ESS1A: The Universe and its StarsESS1B: 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