My NASA Data - Interactive Models

Observing the Sun During a Total Solar Eclipse

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 complete the activity.

- 1. Open the "Observing the Sun During a Total Solar Eclipse" Interactive Slide Deck.
- 2. Use the slides in edit mode in order to manipulate the slides.
- 3. Create your own eclipse drawing using instructions from 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 MotionPS4A: 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 be able to identify what scientists learn about the Sun from viewing a total solar eclipse.

Essential Questions

- 1. What is a solar eclipse?
- 2. What is the difference between a partial and total solar eclipse?
- 3. Why do scientist study solar the Sun during solar eclipses?

Document Resources

NASA Space Place Eclipse Poster

Google Slide interactive Files

Observing the Sun During a Total Solar Eclipse Slides