# **My NASA Data - Interactive Models**

## Learning from Stars and Solar Eclipses StoryMap

#### **Grade Band**

- 6-8
- 9-12

### **Time**

> 90 minutes

#### **Directions**

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

- 1. Using an internet accessible device, students open the link to the <u>Learning From Stars and Solar Eclipses StoryMap</u> to begin their exploration of this phenomenon.
- 2. Distribute the <u>Learning From Stars and Solar Eclipses StoryMap Student Sheet</u>. Have students navigate on their own through the Engage, Explore, Explain, Elaborate, and Evaluate tabs of the StoryMap to answer the questions and complete the activities on their student sheet.

#### **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**

ESS2A: Earth Materials and Systems

• ESS3C: Human Impacts on Earth Systems

### **Crosscutting Concepts**

- Systems and System Models
- Stability and Change

### **Science and Engineering Practices**

- Developing and Using Models
- Analyzing and Interpreting Data

### **Learning Objectives**

- Students will describe the life cycle of a star.
- Students will examine the benefits and hazards of living with a star.
- Students will describe and/or demonstrate how we use eclipses to study the Sun and its features.
- Students will investigate how our Sun may be used to learn about other stars and our universe.

#### **Essential Questions**

- 1. What does living with a star teach us about the universe?
- 2. How do we study the Sun?
- 3. What does the Sun teach us about other stars?

#### **Document Resources**

Student Sheets

### **Google Docs Interactive Files**

Student Sheet (All E's)