

# JR ENGINEERS

# ECLIPSE VIEWER

Protect your eyes during the solar eclipse with this super simple DIY solar eclipse viewer!

## INSTRUCTIONS

**STEP 1:** Trace the bottom of your cereal box onto the white paper and cut out.

**STEP 2:** Tape the paper inside the bottom of the box.

**STEP 3:** Cut off the side flaps of the box.

**STEP 4:** Cut off 1/3 of the top flaps and tape the box back together. This will be your viewing hole.

**STEP 5:** Use the pencil to poke a hole in the flaps, about 2 inches over from your viewing hole.

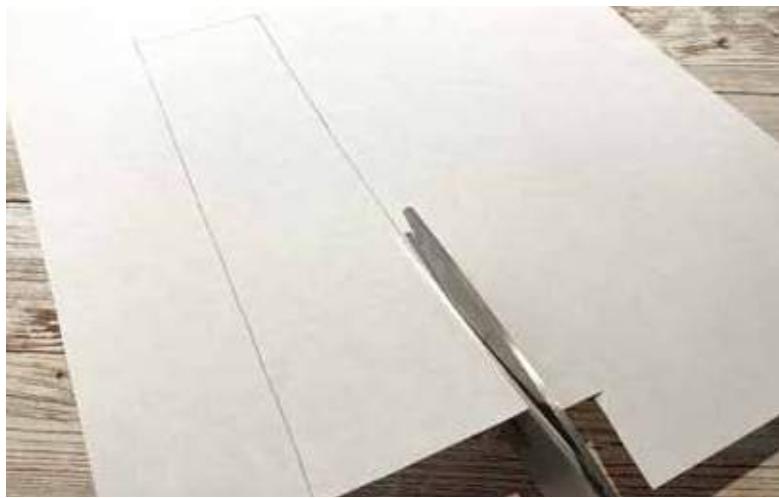
**STEP 6:** During the eclipse, look through your box with your back to the sun. The sun will shine through the small hole and it's image will display on the bottom of the box.

## SOLAR ECLIPSE

A solar eclipse is like a giant game of hide-and-seek in the sky! Imagine the Earth is playing hide-and-seek with the Sun and the Moon. When the Moon moves in front of the Sun, it can block some or all of the sunlight, creating a special kind of shadow on Earth. This is called a solar eclipse. There are different types, like total, partial, and annular eclipses, but they all happen when the Sun, Moon, and Earth line up just right. It's like a big, cosmic show in the sky that happens every now and then, and it's super cool to watch - SAFELY!

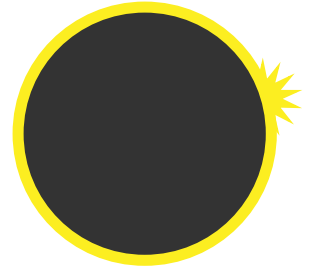
## SUPPLIES

Cereal box  
Scissors  
Tape  
White paper  
Pencil



# Eclipse Viewer Observations

Use this worksheet to process and evaluate your work.



What do you think will happen when you look through the viewer?

---

What did you see? Did it go as expected?

---

---

Look at the shadows on the ground during the eclipse.  
Describe what you saw.

---

---

What have you learned about solar eclipses?

---

---