

CAP Solar Eclipse Classroom

Biology Parent Instructions

The Solar Eclipse on April 8 is a unique learning opportunity for students across North America. To take advantage of this our classroom has partnered with NASA and the Civil Air Patrol (CAP) to give your child the opportunity to not just observe the Solar Eclipse, but to become Solar Eclipse Citizen Scientists!

Over the course of the Solar Eclipse, your child will collect three types of data in their data book:

- **Air Temperature:** Your student's class is collecting air temperature as part of NASA's GLOBE Observer Project. This project will help scientist better understand how the energy from the sun affects weather and our Earth's Atmosphere.
- **Animal:** Your student's class is also collecting information about how animal behavior changes during aa Solar Eclipse as part of NASA's Eclipse Soundscape Project. For project students will record observations of animal behaviors they see or hear at different points in the eclipse.
- **Plant:** Animals are not the only living things that react to eclipses. Students will also be encouraged to observe how a plant reacts to this special astronomical event.

The best way you can help your student make the most of this opportunity is to help them identify and keep track of the times they need to take measurements. You can look up these times based on the location you family will be viewing the eclipse here: <https://eclipsesoundscapes.org/eclipse-lookup-tool>.

Your student will be making and recording observations in their data books at:

AM or PM	Observation 1 is made at the start of the Eclipse, called 1st Contact. Your student will make their first observation of plant and animal behavior.
AM or PM	1 hour before Solar Eclipse Maximum. At this time your will start collecting, air temperature data every ten minutes.
AM or PM	Observation 2 is made 30 minutes before Solar Eclipse Maximum. At this time your student another plant and animal behavior observation and start collecting, air temperature data every five minutes.
AM or PM	Observation 3 is made 10 minutes before Solar Eclipse Maximum. At this time your student will make their third pant and animal observation and continue collecting air temperature data every five minutes.
AM or PM	Observation 4 is made at Solar Eclipse Maximum. Give your child an opportunity to enjoy experiencing the Solar Eclipse Maximum, then have them make another plant and animal behavior observation. Continue collecting air temperature data every five minutes.
AM or PM	Observation 5 is made 10 minutes after Solar Eclipse Maximum. At this time your student will make their fifth plant and animal observation. They will continue to collect air temperature data every five minutes.
AM or PM	Observation 6 is made 30 minutes after Solar Eclipse Maximum. Your student will take another plant and animal behavior observation. They will also start collecting air temperature data every 10 minutes.
AM or PM	1 hour after Solar Eclipse Maximum. Stop collecting air temperature data.
AM or PM	Observation 7 is made at the end of the Eclipse, called 4th Contact. At this time your student will make their final plant and animal behavior observation of the Eclipse.

Thank you for supporting your student's participation in this project!

To learn more about NASA's GLOBE Observer Project go to: <https://observer.globe.gov/do-globe-observer/eclipse>

To learn more about NASA's Eclipse Soundscapes Project go to: <https://eclipsesoundscapes.org/>

To learn more about Civil Air Patrol's Solar Eclipse Classroom Program and access additional activities you can do with your family during the Eclipse head to: <http://tinyurl.com/CAP-Eclipse-Classroom-Info>