

# CLIMATE CHANGE AND THE WATER CYCLE

## *A 10-Hour Curriculum Unit for 6-12 Grade Students*

Welcome! This unit was designed to introduce 6-12 grade students to climate change, the water cycle, and the effects of the changing climate on water resources. The activities in this guide are appropriate for both formal and informal education settings, and they can be modified to fit the needs of students. All activities are aligned to Common Core State Standards and Next Generation Science Standards when applicable.

This curriculum is organized as a 10-day (or 10-hour) unit, with each activity building on the last. The unit need not be completed in its entirety, however. All of the activities can be conducted individually as well. There are nine activities, and some span multiple days (or hours). [The Unit Schedule](#) outlines a proposed schedule of activity completion, assuming one-hour periods. Some days on the Unit Schedule contain several activities, and some activities are completed over multiple days. Days on the schedule can be converted to hours to better suit the time available. Each activity includes an estimated time for completion.

The materials required for the activities can generally be purchased at a household goods store, and some are items that many educators often have available. There are very few specialized supplies needed. Each activity includes a materials section that lists the items required to complete the activity, with provided resources, such as handouts and PowerPoint files, listed first. When viewing this guide electronically with an internet connection, the links within the materials section will navigate to each of the listed resources.

We hope that you and your students enjoy these activities! Please contact the editor with questions and feedback at [s.haan-amato@asombro.org](mailto:s.haan-amato@asombro.org).

### *Unit Phenomenon*

Climate change is affecting the global water cycle, impacting Earth's systems, humans, and other living things.