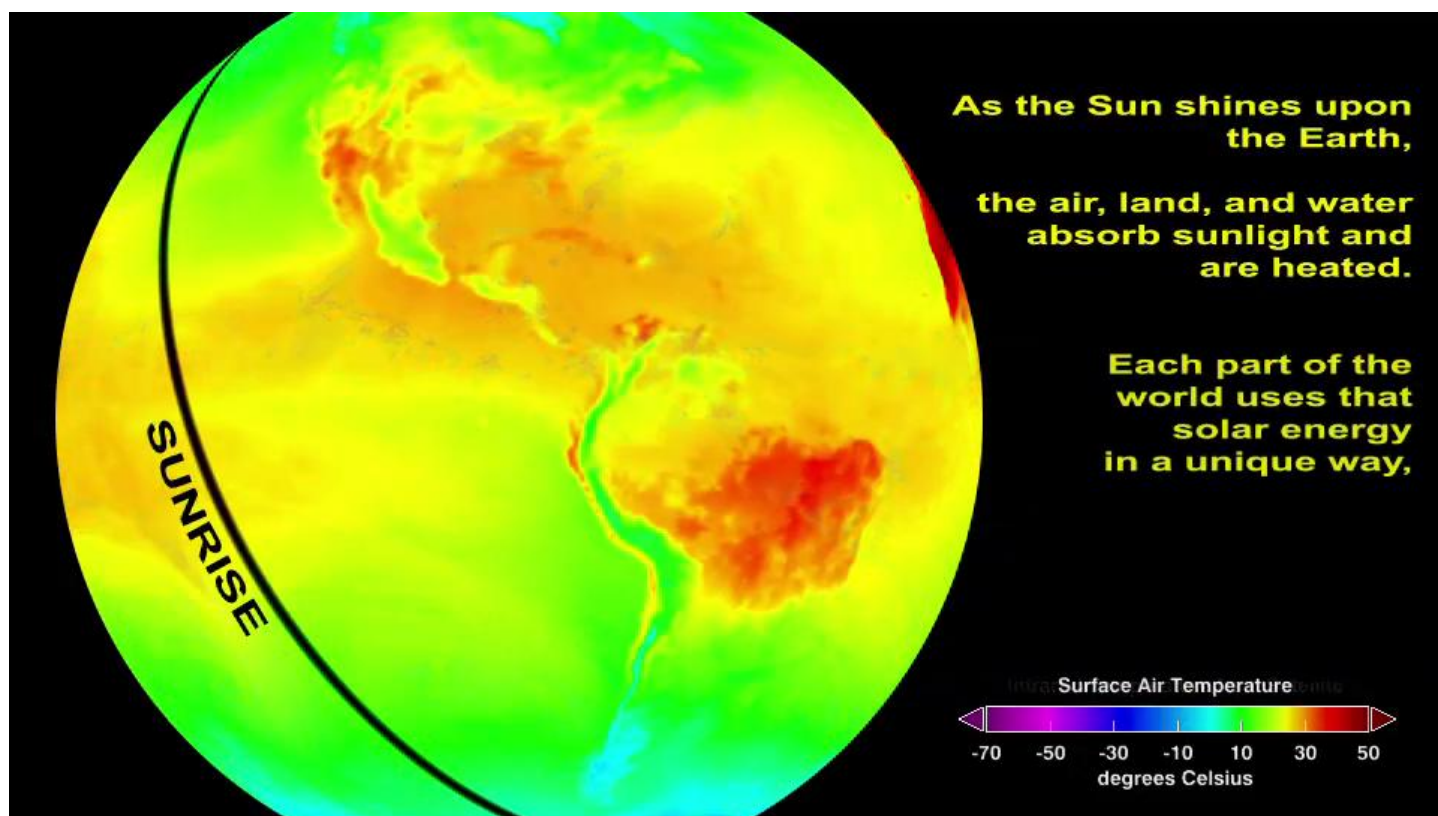


My NASA Data - Mini Lesson/Activity

Energy and Matter: Water Cycle & The Ocean's Temperature



Student Directions

Steps

1. Review the NASA Scientific Visualization Studio video, [The Water Cycle: Heating the Ocean on Youtube](#).

[Video: The Water Cycle: Heating The Ocean](#)

Video

The Water Cycle: Heating The Ocean | <https://www.youtube.com/watch?v=NS-EgRf5L24> | Source: NASA Scientific Visualization Studio

2. Answer the following questions. Check with your instructor on how to submit your answers.

1. What is the water cycle?
2. What drives the movement of air and water in the Earth System?
3. Where does this visualization begin in the water cycle?
4. Describe what happens to the Sun's heat as you progress through the video.
5. How does the Sun and the Hydrosphere's oceans interact in this video?
6. Describe what happens in the night to the ocean with respect to energy.
7. Describe what happens to the land's temperature over the course of the day and night.

This is the first of a four-part series on the water cycle. The other videos are available online:

The Water Cycle: Following The Water:
<http://svs.gsfc.nasa.gov/cgi-bin/details.cgi?aid=10885>

The Water Cycle: Steaming The Air:
<http://svs.gsfc.nasa.gov/cgi-bin/details.cgi?aid=10883>

The Water Cycle: Watering The Land
<http://svs.gsfc.nasa.gov/cgi-bin/details.cgi?aid=10884>

Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bell ringer, exit slip, etc. They take less than a class period to complete. Learn more on the "[My NASA Data What are Mini Lessons?](#)" page.

Teachers who are interested in receiving the answer key, please complete the [Teacher Key Request and Verification Form](#). 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.

My NASA Data Visualization Tool

- [Earth System Data Explorer](#)