Examining a Simplified Model of Cloud Effects on Earth’s Energy
Budget (Student Activity)

Student Directions
This lesson is designed to help students analyze the interaction between different cloud types and Earth's incoming and outgoing energy.

Teachers, these mini-lessons/student activities are perfect "warm-up" tasks that can be used as a hook, bellringer, exit slip, etc.

Teachers who are interested in receiving the answer key, please contact MND from your school email address at larc-mynasadata@mail.nasa.gov. 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. To receive the keys please provide the following:

1. The link to the school/institution’s teacher directory where you are employed so we can verify that you are a teacher
2. Ensure that the school email address is provided in your response as we are unable to send to personal email accounts

Access and Explore Data

- Monthly Flow of Energy into Surface by Longwave Radiation (Watts per square meter)
- Monthly Flow of Energy into Surface by Shortwave Radiation (Watts per square meter)
- Monthly Flow of Energy out of Surface by Longwave Radiation (Watts per square meter)
- Monthly Flow of Energy out of Surface by Shortwave Radiation (Watts per square meter)