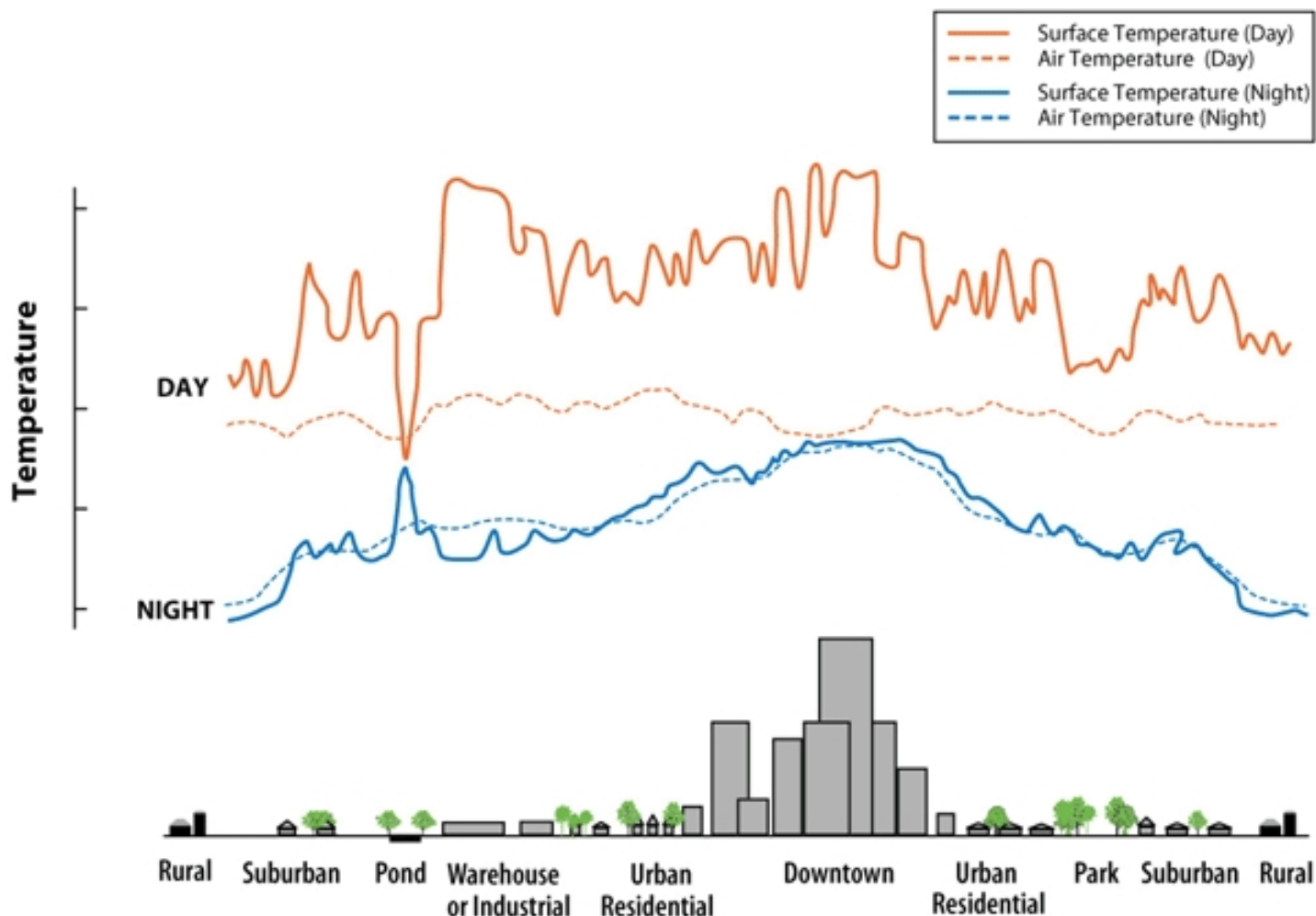


My NASA Data - Mini Lesson/Activity

Surface and Air Temperatures Throughout the Day



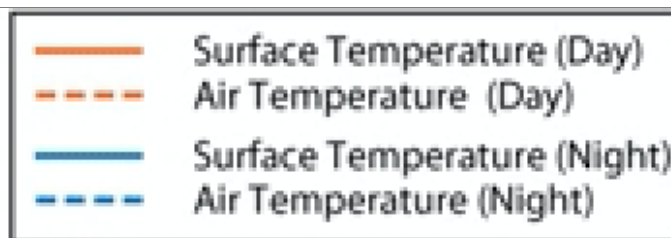
Student Directions

In this diagram, surface temperature refers to the temperature of the ground. Air temperature refers to the temperature of the air about two meters above the ground.

Steps

1. Review the [line graph of surface temperature and air temperature throughout the day](#) and answer the questions below. Check with your instructor on how to submit your answers.
2. Describe what the dashed and solid lines represent in the [line graph of surface temperature](#)

[and air temperature throughout the day.](#)



3. Describe the X Axis and what it represents.
4. Describe the Y Axis and what it represents.
5. Analyze the line graphs and answer the following questions.
 1. What do you see? Identify any trends and differences you see in the graph. Pay special attention to the trends in surface and air temperature at each time of day as well as the difference in surface temperature between the day and night.
 2. Describe the differences between city and rural areas.
 3. Explain why these differences might occur.

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.

Visualization Tool

- [About the Earth System Data Explorer](#)