

How Man Affects the Weather: Guided Viewing Worksheet

Name: _____

- 1: What is the difference between regional climate and microclimate?
- 2: Why is vegetation important in climate?
- 3: What are impervious surfaces? How can impervious surface affect local climates?
- 4: What is an urban environment?
- 5: What is a suburban environment?
- 6: What is a rural environment?
- 7: What is an urban heat island? Explain.
- 8: Why do we care about urban heat islands? What do they do to urban environments?
- 9: What can be done about the urban heat island effect?
- 10: What are green roofs and what are their advantages?
- 11: What is a cool pavement?
- 12: What is a pervious pavement? What is the advantage?

FRQ

A: **Describe** how the temperature of urban areas like Atlanta, Philadelphia, and Chicago differs from that of surrounding rural areas.

B: **Identify and describe** TWO differences between urban and surrounding rural areas that contribute to the temperature differences between them.

C: Urban areas typically have levels of air pollution that are significantly higher than those found in surrounding rural areas. **Identify a characteristic** of the urban microclimate that lead to higher levels of air pollution and **describe how** that characteristic contributes to this increase

D: **Identify and describe TWO actions** that local governments in urban areas could take to reduce air pollution.