

Name _____

Points _____ Student # _____

Research Activity - Heat Islands

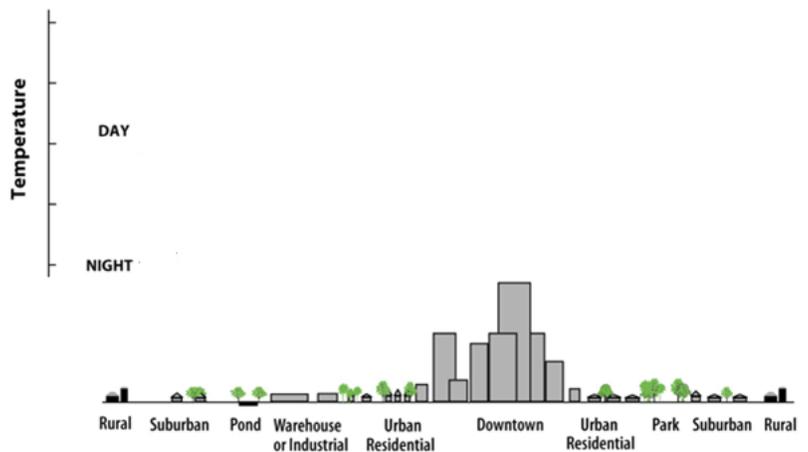
APES/Ms. Lolich

Directions: Complete the questions below by accessing Ch. 20 at my website or by linking to:
<http://www.epa.gov/heatisland/about/index.html> Titles (in all capitals) will help you navigate through the website

BASIC INFORMATION

1. Describe what a Heat Island is.
2. Sketch in the temperature variation (as shown on the website) on to the profile below
3. Identify which areas are cooler

4. Explain how Heat Islands form.



5. Describe 2 methods that contribute to higher urban temperatures from heat islands

6. Weigh the benefits for wintertime vs. summertime heat island areas.

HEAT ISLAND IMPACTS

7. Explain how ground level ozone forms

8. Explain how water quality is affected by the heat island process.

WHAT CAN BE DONE? – click on “Green Roofs”

9. What is the temperature variance in a green roof vs. traditional roof?

10. Identify and describe some benefits of green roofs

WHERE YOU LIVE – select Michigan on the interactive map

11. What Mitigation Type does Michigan currently have?

12. Explain the project