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Module 02: Land Use

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## Student Pages - Surfaces and Temperature around your study site

Center for Urban Resilience

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### **Activity 4.2: Surfaces and Temperature around your study site**

#### **What will I need?**

You will be collecting temperature data at eight different points in your study site. To collect your data you will need the following tools:

1. Thermometer
2. Data Collection Sheet
3. Clipboard

#### **Instructions and Data Collection**

When collecting your data you should hold your thermometer at approximately 3 inches off the ground or surface and hold it for at least one minute to make sure that the temperature you record is accurate for that location. You should then record your data on your heat island data collection sheet.

Take temperature readings at 8 different locations around your study site. Try to find diverse locations. Some potential locations include: (1) in the middle of a grassy field, (2) near a building, (3) in a paved parking lot, or (4) under a tree that shades grass and under a tree that shades a paved area. Be sure to describe your location on your data collection sheet.

**Urban Heat Island Data Collection Form***Possible Surfaces*

Sidewalk

Pavement (Black)

Grass

Bare Soil

Water

Brick

Sand

Location Number	Surface	Time of Recording	Weather Conditions	Temp (°C)	Description of Location
	<i>Grassy</i>	<i>11:00 am</i>	<i>Sunny with some clouds</i>	<i>23</i>	<i>This recording was taken under a large shade tree near a building</i>
1					
2					
3					
4					
5					
6					
7					
8					
9					

### **Data Analysis**

Now that you have collected data examine that data and see if there are any patterns in your data.

1. Describe any patterns or trends that you see in your data.
2. What do you think is the reason for your findings?
3. What do you think are the potential effects on vegetation given your data?