Name

STUDENT

HANDOUT

The Urban Heat Island Effect

Research question:

Materials

* Thermometer
*
*

*
*

Procedure

1.
2.
3.
4.
5.

Variables and controls

What is your independent variable? (What are you changing between your two setups?)

What is your dependent variable? (What are you measuring?)

What are you controlling? (What needs to be the same in both of your setups?)

Hypothesis

Your hypothesis should be a logical answer to your research question based upon what you know about surfaces:

Data

|  |  |  |
| --- | --- | --- |
| Time | Surface 1:  | Surface 2: |
| 0 min |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Analysis

How much did the temperature change near Surface 1?

How much did the temperature change near Surface 2?

Conclusion

Was your hypothesis correct?

Why did the air heat up more in some places than others?

Based upon your results, explain what causes the urban heat island effect.