Materials

 $Some \ students \ may \ benefit \ from \ having \ concrete \ materials \ to \ help \ trigger \ their \ imagination.$

Possibilities include:

• Soil • A variety of

Sand containers

Gravel

A plant

Water

or grass

· Lamp(s)

· A piece of

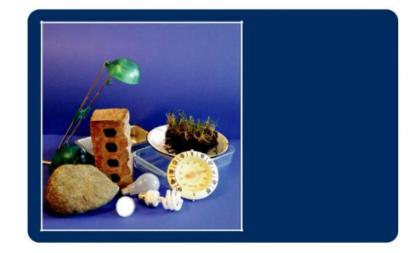
• Lightbulbs

asphalt / brick

(different

Thermometer

kinds)



Experiment

You are going to heat up different materials to see how the temperature changes.

- 1. Fist are you going to heat up different samples that you collected indoor and outdoor and write down your findings.
- 2. The heating up will be done in the form of a Lamp with a lightbulb (this can take some time so be patient)

Indoor	Outdoors
River sand	
L	L
Leam sand	
]



Clay sand	1663				16 80 30
Potting soil				-	
Cement		-		-	
Rock any					
Grass					
Any other plant					
Water					

Did you know that coastal provinces have milder winters than those that are inland? For example, for the last 29 years, the average winter temperature (December to March) was -4.6°C in Collegeville, Nova Scotia, but in Ottawa, Ontario, it was -7.0°C, even though they are the same distance north (Latitude 45N) and have a similar elevation (about 78 m above mean sea level). There



are lots of factors that affect local climate, but I wonder how much it matters that one is out in the

	n and the other is landlocked. After all, the sun is in both places! Let's see by planning an tigation
•	Does water heat up faster than land?
•	Does it matter what is on the land (cityscape vs. vegetation or agricultural crops)?

Does the type of land matter (soil vs. sand)?

