

PROBLEM SOLVING ACTIVITY:

Heating Land and Water

TASK: Obtain the following materials:

2 beakers

Water

A watch/clock

Sand

A thermometer

A bright light bulb

(or a sunny window)

I. Using these materials, design an experiment to answer the following questions:

- Which heats up faster, land or water?
- Which cools down faster, land or water?
- Which holds heat the longest?

II. Based on the results of the experiment, explain how and why land and sea breezes occur.

