

Anticipation Guide: Heating Earth Surfaces

Before starting the activity, mark whether you agree (+) or disagree (—) with each statement below.

After completing the activity, mark whether you agree (+) or disagree (—) with each statement below. Under each statement, explain how the activity gave evidence to support or change your ideas.

Before After

_____ _____ **1.** The sun's energy can heat the earth's surfaces, even though it is millions of kilometers away.

_____ _____ **2.** The sun's energy heats both land and water to the same temperatures.

_____ _____ **3.** After being heated, land cools faster than water.

_____ _____ **4.** Differences in land and water affect weather and climate.