

Key Concept Builder **LESSON 3**

Recent Climate Change

Key Concept How are predictions for future climate change made?

Directions: On each line, write the term from the word bank that correctly completes each sentence. Each term is used only once.

climate	climate model	equations	global warming
greenhouse gases	maps	physics	polar
precipitation	supercomputers	temperatures	tropic

1. A global _____ model, or GCM, is a set of complex _____ that is used to predict future climates.
2. GCMs combine mathematics with the laws of _____ to predict temperature, amount of _____, wind speeds, and other characteristics of _____.
3. GCMs include the effects of _____ and oceans in their calculations.
4. Scientist use powerful _____ to solve complicated mathematical equations.
5. The calculations are displayed as _____.
6. Most GCMs predict that _____ is closely related to greenhouse gas emissions.
7. By the year 2100, _____ are expected to rise by between 1°C and 4°C.
8. The _____ regions are expected to warm more than the _____ regions.