

Name: _____ date: _____ period: _____

Ch. 9 & 10 Intro climate change & sea level raise 60 points (10 ec) test ngss chemistry

For problems, involving calculations, show your work in an organized manner, show formula / equation used, include the appropriate units in your work / answer.

1. Describe the role / impact of ocean currents on the average temperature in the northern hemisphere and equator. [10 points]
2. List / describe / basis of 3 factors that could affect the average temperature on the Earth. [10 points]
3. List / describe / basis of 2 factors that can affect sea level. [10 points]
4. Calculate the information needed to sketch the heating curve for 100 grams of water at -25°C to 125°C . [15 points]
5. Using the above information, sketch the heating curve on the adjacent graph. Label both axes; include name of variable and numeric values of variables. [10 points]
6. Solve [15 points]
 - a. 5.0 moles of CO_2 = _____ grams of CO_2
 - b. 75 grams of H_2O = _____ moles of water
 - c. $125 * 10^{12}$ methane (CH_4) molecules = _____ moles of methane