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| **Guided Reading Questions**  Write response directly across from the question in your notes. | **Notes (Responses to Guided Reading Questions)**  Take sufficient notes with selective (not too wordy) & accurate paraphrasing to answer guided reading questions.  **Suggested Guidelines:**   * Include headings and key words * Skip a line between ideas and topics * Use bulleted lists and abbreviations * Correctly sequence information   Include diagrams or tables if needed for clarification |
| **Why Temperature Varies** | |
| What are the 4 factors that affect a specific locations’ temperature? |  |
| How does the angle of solar radiation affect the temperature of a location? |  |
| Make a diagram of the seasons and explain how the tilt and general distance from the sun changes for each season. |  |
| How does the proximity of a location to water affect the locations’ temperature? |  |
| **Questions** | **Notes** |
| How do ocean currents affect the temperature of coastal regions? |  |
| What is El Nino-Southern Oscillation (ENSO) and how does it influence weather patterns? |  |
| How does a location’s elevation affect its temperature? |  |
| **Summary of Section**  In your own words and in complete sentences, write a 3 – 5 sentence summary paragraph. Your summary should cover the main concepts of the notes and include adequate details to answer the section’s guided reading questions. | |
| **Questions** | **Notes** |
| **Methods for Measuring Recent Temperature** | |
| What are the methods of measuring **recent** temperatures? |  |
| **Methods for Studying Past Temperatures** | |
| What are some methods used to study past temperatures? |  |
| How are oxygen isotope ratios used to reconstruct the air temperature from an ice core? |  |
| **Temperature Change Over Geological Time** | |
| How much have Earth’s temperatures varied prior to the past 8,000 years when human civilization advanced? |  |
| What causes glaciation?  (Explain/diagram the Milankovitch cycles and indicate the time scale for each.) |  |
| What are some of the differences between the terms: an ice age, glacial period, and interglacial period. |  |
| Approximately how many ice ages have occurred over the last 4.6 billion years, when did they occur and what were they named? |  |
| **Summary of Section**  In your own words and in complete sentences, write a 3 – 5 sentence summary paragraph. Your summary should cover the main concepts of the notes and include adequate details to answer the section’s guided reading questions. | |