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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 question.  **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 |
| **The Atmosphere** | |
| What makes it possible to support life on Earth? |  |
| What was Earth’s ancient atmosphere like? |  |
| What gases make up Earth’s atmosphere? |  |
| How is Earth’s atmosphere structured and what characterizes each layer? |  |
| **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** |
| **Electromagnetic Radiation** | |
| How does the sun get its energy? |  |
| What are electromagnetic waves and how are they characterized? |  |
| What is the electromagnetic spectrum? |  |
| Describe the radiation intensity of the solar radiation reaching Earth. |  |
| **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. | |
| **Notes** | **Notes** |
| **Temperature and Radiation** | |
| How does the Stefan-Boltzmann Law explain the relationship between the object’s temperature and the amount of radiation it emits and the reason that the sun emits more radiation than Earth? |  |
| How does Wien’s Law explain the relationship between the object’s temperature and the wavelength and the reason that they sun emits shorter wavelengths of radiation? |  |
| Describe the ways that heat is transferred in Earth’s atmosphere. |  |
| **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. | |