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| Literacy Standards - Reading **Key Ideas & Details**   * 1. Read closely; cite specific textual evidence … * 2. Determine central ideas of a text & analyze their development; summarize the key supporting details and ideas * 3. Analyze how and why ideas develop & interact over the course of a text   **Craft and Structure**   * 4. Interpret words &phrases as they are used in text.. * 5. Analyze the structure of texts … * 6. Assess how point of view or purpose shapes the content and style of a text.   **Integration of Knowledge and Ideas**   * 7. Integrate and evaluate content presented in diverse media and formats … * 8. Delineate and evaluate the argument and specific claims in a text … * 9. Analyze how two or more texts address similar themes or topics …   **Range of Reading & Level of Text Complexity**   * 10. Read and comprehend science /technical texts at grade level independently and proficiently   **Literacy Standards - Writing**  **Text Types and Purposes**   * 1. Write arguments focused on content * 2. Write informative/explanatory texts   **Production & Distribution of Writing**   * 4. Produce clear and coherent writing * 5. Develop and strengthen writing * 6. Use technology to produce and publish writing   **Research to Build and Present Knowledge**   * 7. Conduct short research projects to answer a question * 8. Gather relevant information from multiple print and digital sources * 9. Draw evidence from informational texts to support analysis, reflection and research   **Range of Writing**   * 10. Write routinely over extended and shorter time frames.    Standards for Mathematics Practices  * 1 Make sense of problems & nse of problpersevere in solving them * 2 Reason abstractly & quantitatively * 3 Construct viable arguments & critique reasoning of others * 4 Model with mathematics * 5 Use appropriate tools strategically * 6 Attend to precision * 7 Look for & make use of structure * 8 Look for & express regularity in repeated reasoning | **Standards for Technological Literacy**  **Develop an understanding of the:**   * 1: characteristics & scope oftechnology * 2: core concepts of technology * 3: relationships among technologies and the connections between technology & other fields of study. * 4: cultural, social, economic, &political effects of technology. * 5: effects of technology on the environment * 6: role of society in the development and use of technology. * 7: influence of technology on history * 8: attributes of design. * 9: engineering design. * 10: role of troubleshooting, research & development, invention & innovation, & experimentation in problem solving   **Develop abilities to:**   * 11: apply the design process. * 12: use & maintain technological products & systems. * 13: assess the impact of products & systems.   **Develop an understanding of & be able to select & use:**   * 14: medical technologies. * 15: agricultural & related biotechnologies. * 16: energy & power technologies. * 17: information & communication technologies. * 18: transportation technologies. * 19: manufacturing technologies. * 20: construction technologies.   **Science Standards**  **Standard 1: Skills & Processes**   * A1. Design, analyze, or carry out simple investigations and formulate appropriate conclusions based on data obtained or provided * B1. Review data from a simple experiment, summarize the data, and construct a logical argument about the cause-and-effect relationships in the experiment * C1. Develop explanations that explicitly link data from investigations conducted, selected readings, and, when appropriate, contributions from historical discoveries * D. Design and Systems: Explain that complex systems require control mechanisms * D. Designed Systems: Analyze, design, assemble and troubleshoot complex systems. * D. Making Models: Analyze the value and the limitations of different types of models in explaining real things and processes. | |
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