### 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

### Standards for Technological Literacy

#### Develop an understanding of the:
- 1: characteristics & scope of technology
- 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.
## Standards for Mathematics Practices

- Make sense of problems & persevere in solving them
- Reason abstractly & quantitatively
- Construct viable arguments & critique reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for & make use of structure
- Look for & express regularity in repeated reasoning