Common Core Standards:

Writing (Grades 6-8)

Text Types and Purposes:
1. Write arguments to support claims with clear reasons and relevant evidence

Literacy in Science & Technical Subjects (Grades 6-8)

Key Ideas and Details:
3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.

Craft and Structure:
4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.

Integration of Knowledge and Ideas:
7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).

Virginia Standards of Learning (SOL)

6th Grade

6.1 The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which

   a) observations are made involving fine discrimination between similar objects and organisms; h) data are analyzed and communicated through graphical representation;

   i) models and simulations are designed and used to illustrate and explain phenomena and systems

   j) current applications are used to reinforce science concepts.
Life Science (Grade 7)

LS.1 The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which

  b) a classification system is developed based on multiple attributes;
  d) models and simulations are constructed and used to illustrate and explain phenomena
  j) current applications are used to reinforce life science concepts

LS.12 The student will investigate and understand that organisms reproduce and transmit genetic information to new generations. Key concepts include:

  a) the structure and role of DNA;
  b) the function of genes and chromosomes;

Physical Science (Grade 8)

PS.1 The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which

  a) chemicals and equipment are used safely;
  j) valid conclusions are made after analyzing data;
  k) research methods are used to investigate practical problems and questions;
  m) models and simulations are constructed and used to illustrate and explain phenomena
  n) current applications of physical science concepts are used.