

Content Standards & Benchmarks: Science
Grade 8
West Des Moines Community School District

- Standard #1: Students will understand major concepts in earth science and how these apply to society.
- 8.1.a explain cause and effect of earthquakes and volcanoes
 - 8.1.b identify the characteristics of rocks and minerals
- Standard #2: Students will understand major concepts in life science and how these apply to society.
- 8.2.c understand how the organ systems of humans interact to maintain life
 - 8.2.d explain how organisms survive in a constantly changing environment
- Standard #3: Students will understand major concepts in physical science and how these apply to society.
- 8.3.e compare and contrast properties of matter and energy
 - 8.3.f apply physical science concepts using mathematical formulas (i.e., density, work, energy)
 - 8.3.g apply Newton's Laws of Motion
 - 8.3.h use a periodic table to provide basic information about elements
- Standard #4: Students will use scientific inquiry processes (e.g. questioning, observing, predicting, experimenting, controlling variables, concluding) to understand the natural world.
- 8.4.i interpret a graph
 - 8.4.j given a problem, form a hypothesis, plan an investigation with controlled variables, record data, and draw one or more conclusions
- Standard #5: Students will recognize the inter-relationships among the earth, life, and physical sciences and their effect on the environment.
- 8.5.k explain how parts of an Iowa ecosystem interact
 - 8.5.l analyze humans' positive and negative impacts on Iowa's environment
- Standard #6: Students will know the needs, functions, and systems of the human body, as it develops into an adult.
- 8.6.m identify the major female and male reproductive organs of the human body
 - 8.6.n describe the developmental stages of male and females from conception to maturity
 - 8.6.o state the physical, social, and emotional consequences of being sexually active as a teenager