

Science – Biology
Hartley-Melvin-Sanborn CSD
Grade Level/Course Benchmarks

Students will:

1. Use technology to perform accurate scientific investigations and communications. (GENERAL)
2. Understand how scientific knowledge changes and accumulates over time. (GENERAL)
3. Know ways in which science and society interact with one another. (GENERAL)
4. Know that cell functions are regulated through proteins expressed by individual genes. (LIFE)
5. Understand the structure of a cell and be able to identify parts and their function within the cell (LIFE)
6. Understand the process of photosynthesis and respiration (LIFE)
7. Know how the interrelationships and interdependencies among organisms generate stable ecosystems (LIFE)
8. Know ways in which humans can alter the equilibrium of ecosystems. (LIFE)
9. Know the structure of food molecules and how they are used by the body (PHYSICAL)
10. Understand that food webs and food chains demonstrate laws of energy of conservation. (PHYSICAL)
11. Know that chemical reactions release or consume energy (PHYSICAL)
12. Know that chemical reactions can be accelerated by catalysts. (PHYSICAL)
13. Understand how life has impacted the Earth and how conditions have changed over geologic time. (EARTH)
14. Know that elements exist in fixed amounts and move by geochemical cycles. (EARTH)

Revised 2004-2005 Science Benchmark Day
9-12 team Dotty Trost