

**Recommendations
from High Schools That Work and
ACT's "On Course for Success"**

Science Literacy Goals

- Read the equivalent of 25 books per year across the curriculum
- Read scientific journal articles and newspapers weekly
- Use reading and writing strategies to enhance learning, including marginal notes and annotations
- Write constructed/extended responses to open-ended questions multiple times within a unit
- Complete short writing assignments weekly
- At least once per semester, write research papers /reports that meet ELA HSCE
- Routinely take detailed notes
- Keep a science journal
- Deliver oral presentations
- Discuss or debate topics with peers

**Recommendations
from High Schools That Work,
ACT's "On Course for Success" and
Understanding University Success**

All students should complete rigorous science courses in which they:

- Acquire knowledge through inquiry that incorporates technology experiences
- Participate weekly in laboratory activities with a step-by-step predetermined procedure emphasizing process
- Design and conduct scientific investigations; analyze, communicate and defend findings; evaluate other scientific investigations and apply results
- Apply and refine science process skills, such as data analysis and interpretation
- Actively engage in problem solving, critical thinking, and decision making
- Transfer knowledge to real-world societal problems
- Apply mathematical concepts, processes, and reasoning
- Frequently use graphing and scientific calculators