

Critical Thinking

Examples of Outcome Statements

1. Determine the credibility of information
2. Analyze data and results
3. Review appropriate literature
4. Apply the scientific method to solve original chemical problems
5. Raise vital questions and problems
6. Gather and assess relevant information
7. Come to well-reasoned conclusions and solutions
8. Think open-mindedly within alternative systems of thought
9. Defend a position on a complex issue
10. Solve problems
11. Transfer ideas to new contexts
12. Examine assumptions
13. Assess alleged facts
14. Explore implications and consequences
15. Select appropriate tools/media/materials/colors
16. Determine the plausible from the implausible/the credible from the incredible/the probable from the improbable
17. Synthesize compounds, collect data using appropriate instrumentation, and analyze data using appropriate statistical methods