

In order to be a competent problem solver, students will be able to:

- Identify and define a problem
 - Understand the relevant issues presented by a problem
 - Identify and locate the relevant information needed to solve the problem
 - Develop a logical approach leading to a valid conclusion
 - Collect and analyze data
 - Clearly communicate the results

Criteria:

Level 4 (exceeds requirements)

- Accurately identify and insightfully define all aspects of a problem.
- Identify and locate a variety of appropriate tools and information needed to solve a problem.
- Effectively analyze relevant data.
- Develop and evaluate working hypotheses using multiple procedures.
- Clearly and effectively communicate results.

Level 3 (meets requirements)

- Accurately identify and define a problem.
- Identify and locate some appropriate tools and information needed to solve a problem.
- Analyze relevant data.
- Develop and evaluate a working hypothesis using some procedures.
- Clearly communicate results

Level 2 (approaches requirements)

- Identify and define only part of a problem neglecting some important issues.
- Demonstrate limited awareness of appropriate tools and information needed to solve a problem.
- Superficially analyze or lack relevant data.
- Struggle to develop a working hypothesis and procedures.
- Give incomplete or confused explanations of both the process and results.

Level 1 (not to standard)

- Misunderstand the problem.
- Demonstrate no awareness of appropriate tools and information needed to solve a problem.
- Ignore, misinterpret or misuse data.
- Not develop a working hypothesis and procedures.
- Not communicate results.