

**Content Standard D
Seventh Grade Level
Reasoning**

Students use logic and reason to solve mathematical problems.

| State Mathematics Performance Standards 6 th -8 th | KGBSD Performance Standards | State Grade Level Expectations (GLE's) |
|---|---|---|
| <p>M9.3.1 Use informal deductive and inductive reasoning in both concrete and abstract contexts.</p> <p>M9.3.2 State counterexamples to disprove statements.</p> <p>M9.3.3 Justify and defend the validity of mathematical strategies and solutions using examples and counterexamples.</p> | <p>1.1 Use informal deductive and inductive reasoning in concrete situations</p> <p>2.1 Give counter examples to explain or demonstrate why a statement is false</p> <p>3.1 Justify and defend the validity of mathematical strategies and solutions using examples and counterexamples</p> | <p><u>Reasoning (for local assessment)</u> The student demonstrates an ability to use logic and reason by</p> <p>[7] PS-4 using informal deductive and inductive reasoning in concrete contexts or stating counterexamples to disprove statements; or justifying and defending the validity of mathematical strategies and solutions using examples (M9.3.1, M9.3.2, & M9.3.3)</p> |