

4th Grade Benchmarks Science

Level 5 – Student performance exceeds year-end standard

Level 4 – Student performance meets year-end standard

Level 3 – Student performance approaches year-end standard

Level 2 – Student demonstrates limited performance to year-end standard

Level 1 – Student does not yet evidence understanding or application of skills related to year-end standard

NOTE: MPI and MPII performance levels are determined based on performance expectations at the time of reporting

Student Performance Standard – Student	Level 1 Below	Level 2 Limited	Level 3 Approaches	Level 4 Meets	Level 5 Exceeds
Plans and conducts an investigation.	Plans and conducts an investigation to produce data with adult support.	Plans and conducts parts of an investigation to produce data; evaluates specific methods and/or tools for collecting data.	Plans and conducts an investigation to produce some data to serve as the basis for evidence; evaluates methods and/or tools for collecting data; makes some predictions about what would happen if a variable changes.	Plans and conducts an investigation collaboratively to produce data to serve as the basis for evidence; evaluates appropriate methods and/or tools for collecting data; makes predictions about what would happen if a variable changes.	In addition to Level 4 performance, generates ideas for alternate investigations in order to elicit specific data; supports peers during investigations by explaining purpose of steps; suggests alternate methods for collecting specific data.
Organizes and interprets data.	Analyzes and interprets data with adult support.	Uses logical reasoning, mathematics, and/or computation to analyze and interpret specific data; compares and contrasts specific data in order to discuss similarities and differences in findings.	Uses logical reasoning, mathematics, and/or computation to analyze and interpret some data; compares and contrasts some data in order to discuss similarities and differences in findings.	Uses logical reasoning, mathematics, and /or computation to analyze and interpret data; compares and contrasts data collected by different groups in order to discuss similarities and differences in their findings.	In addition to Level 4 performance, organizes data from multiple groups in order to better understand findings; uses this information to refine investigations.

Constructs explanations and designs solutions to problems.	Identifies specific evidence to support an explanation with adult support.	Identifies specific evidence that supports an explanation; distinguishes between facts, reasoned judgment, and speculation in specific explanations; uses specific data to evaluate claims about cause and effect.	Identifies evidence that supports an explanation; distinguishes between facts, reasoned judgment, and speculation in some explanations; uses some data to evaluate claims about cause and effect.	Identifies evidence that supports particular points in an explanation; distinguishes between facts, reasoned judgment, and speculation in an explanation; uses data to evaluate claims about cause and effect.	In addition to Level 4, considers ways of collecting additional supportive evidence; alternatively, considers ways of refuting claims by collecting data that does not support points in an explanation.
Evidences understanding of content and concepts.	Demonstrates understanding of specific content and concepts with adult support.	Demonstrates understanding of some content and concepts; understanding may be limited or confused.	Demonstrates understanding of most content and concepts based on unit rubrics and assessments.	Demonstrates understanding of content and concepts based on unit rubrics and assessments.	In addition to Level 4 performance, evidences understanding that exceeds grade level content and concepts.