## 5<sup>th</sup> 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	Level 1	Level 2	Level 3	Level 4	Level 5
Performance	Below	Limited	Approaches	Meets	Exceeds
Standard -					
Student					
Plans and conducts an investigation.	Plans and conducts an investigation with adult support; tests models with adult support.	Plans and conducts specific parts of an investigation in which variables are controlled and the number of trials are considered; tests specific models and compares results with peers to determine which better meets criteria for success.	Plans and conducts parts of an investigation in which variables are controlled and the number of trials are considered; tests models and compares results with peers to determine which better meets criteria for success.	Plans and conducts an investigation collaboratively that uses fair tests in which variables are controlled and the number of trials are considered; tests two different models of the same proposed object, tool or process to determine which better meets criteria for success.	In addition to Level 4 performance, designs investigations that would enable trials to be conducted more efficiently; designs multiple model tests in order to refine criteria for success.
Analyzes and interprets data.	Analyzes and interprets data with adult support.	Analyzes specific data produced from a trial; uses specific data to evaluate and refine design solutions.	Analyzes data produced from a trial; uses data analysis to develop a problem statement or to design a proposed object, tool or process; uses some data to evaluate and refine design solutions.	Analyzes data produced from multiple trials; uses data analysis to refine a problem statement or the design of a proposed object, tool or process; uses data to evaluate and refine design solutions.	In addition to Level 4 performance, organizes data drawn from multiple trials to better understand findings; uses findings to further refine design solutions.

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Constructs	Generates a solution	Generates a solution	Generates a solution	Generates and	In addition to Level 4
explanations and	to a problem with	to a problem based	to a problem based	compares multiple	performance,
designs solutions to	adult support.	on some of the criteria	on how well it meets	solutions to a problem	develops a rating
problems.		and constraints of the	the criteria and	based on how well	system for designing
		design solution;	constraints of the	they meet the criteria	solutions that
		makes a claim about	design solution;	and constraints of the	incorporates both
		the merit of a solution	makes a claim about	design solution;	criteria met and
		to a problem by citing	the merit of a solution	makes a claim about	design constraints.
		evidence that may or	to a problem by citing	the merit of a solution	
		may not be relevant.	some relevant	to a problem by citing	
			evidence.	relevant evidence.	
Evidences	Demonstrates	Demonstrates	Demonstrates	Demonstrates	In addition to Level 4
understanding of	understanding of	understanding of	understanding of most	understanding of	performance,
content and concepts.	specific content and	some content and	content and concepts	content and concepts	evidences
	concepts with adult	concepts;	based on unit rubrics	based on unit rubrics	understanding that
	support.	understanding may be	and assessments.	and assessments.	exceeds grade level
		limited or confused.			content and concepts.

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