2019-20 NC Check-Ins Grade 5 Physical Science State Item Statistics				
	Content Standard		Item #	Percent Correct by Item
Forces and Motion	5.P.1.1	Explain how factors such as gravity, friction, and change in mass affect the motion of objects	1	84
			8	69
			14	23
	5.P.1.2	Infer the motion of objects in terms of how far they travel in a certain amount of time and the direction in which they travel.	2	86
			3	37
			5	56
			22	65
	5.P.1.3	Illustrate the motion of an object using a graph to show a change in position over a period of time.	12	64
			17	40
	5.P.1.4	Predict the effect of a given force or a change in mass on the motion of an object.	7	36
			9	83
			24	80
Matter: Properties and Change	5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including evaporation, transpiration, condensation, precipitation and runoff).	6	84
			13	56
			20	37
	5.P.2.2	Compare the weight of an object to the sum of the weight of its parts before and after an interaction.	16	86
			21	52
	5.P.2.3	Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.	4	32
			19	76
Energy: Conservation and Transfer	5.P.3.1	Explain the effects of the transfer of heat (either by direct contact or at a distance) that occurs between objects at different temperatures. (conduction, convection or radiation)	10	39
			15	55
			25	61
	5.P.3.2	Explain how heating and cooling affect some materials and how this relates to their purpose and practical applications.	11	78
			18	65
			23	36

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state. Each NC Check-In for grade 5 Science assesses different content standards.