

Grade 6 Science: Formative Assessment Tracking of Science Skills

PP2: State a prediction and a hypothesis based on an observed pattern of events

4: Excelling	3: Got it	2: Almost	1: Need Help
<ul style="list-style-type: none"> • Makes a prediction or hypothesis statement which is testable; is specific with details • Makes a hypothesis using an “If, then, because” scaffold: <ul style="list-style-type: none"> o relevant to the question o testable o includes a plausible reason (refers to research) • Written passive voice 	<ul style="list-style-type: none"> • Makes a prediction or hypothesis statement which is testable • Makes a hypothesis using an “If, then, because” scaffold: <ul style="list-style-type: none"> o relevant to the question o testable o includes a plausible reason (may refer to readings or research) • Written in passive voice 	<ul style="list-style-type: none"> • Prediction or hypothesis is not clearly testable • Makes a hypothesis using an “If, then, because” scaffold including a reason which may be relevant but is not clearly expressed • Not written in passive voice 	<ul style="list-style-type: none"> • Prediction or hypothesis is not testable • Reason is missing or irrelevant • Any other answer

Student Name	Scores	Student Name	Scores	Student Name	Scores

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PP5: Record observations and collect relevant data

4: Excelling				3: Got it				2: Almost				1: Need Help			
				<ul style="list-style-type: none"> Data Collection: Routinely collects data that is: relevant, appropriately labeled, organized, & honest Quantitative Data: Routinely measures accurately and records with units Qualitative Data: Routinely records observations with appropriate detail and not inferences 				<ul style="list-style-type: none"> Data Collection: The type of data collected is irrelevant or needs support to identify relevancy; May be reluctant to record observations contrary to predictions Quantitative Data: Accuracy is inconsistent and/or units are missing Qualitative Data: Observations very general not very detailed 				Any other answer			
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AE1: Classify by attributes and display of Relevant Data

4: Excelling	3: Got it					2: Almost					1: Need Help									
<ul style="list-style-type: none"> • Displaying Appropriately: Takes the initiative to display the data in various ways that reveal various patterns • Use of Conversions with Displays: Graphs with proper x and y axis 	<ul style="list-style-type: none"> • Identify Relevent Attributes: Identifies relevant characteristics of items or organisms and groups by similarities and/or differences • Displaying Appropriately: Information is organized and displayed in a way appropriate to the data so that patterns and trends are apparent • Use of Conversions with Displays: Charts and graphs have all appropriate titles and labels and information is plotted correctly 					<ul style="list-style-type: none"> • Identify Relevent Attributes: Includes characteristics not relevant to the questions or problem • Displaying Appropriately: The type of organization of data selected does not reveal patterns and trends or is inappropriate to the type of data • Use of Conversions with Displays: Data or information is plotted correctly but a minor error in the labels may be present 					Any other answer									
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AE2: Analysis of data representations: trends, discrepancies and sources of error

4: Excelling	3: Got it	2: Almost	1: Need Help
<ul style="list-style-type: none"> Pattern, trends, relationship: Independently communicates additional patterns, trends or relationships Discrepancy: Change to the experimental design is suggested to eliminate the occurrence of the source of error 	<ul style="list-style-type: none"> Pattern, trends, relationship: Describes an appropriate pattern, trend, or relationship Discrepancy: Identifies a discrepancy, noting a possible source of error 	<ul style="list-style-type: none"> Pattern, trends, relationship: Is unclear or overly simplistic Discrepancy: Identifies a discrepancy, but is unable to explain the possible source of error 	Any other answer

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