

11546PB-2015 Polymer Science Common Analytic Rubric

What is the evidence that the student can...	No Evidence	Novice	Between Levels	Intermediate	Between Levels	Advanced
...use models and diagrams to communicate processes and relationships?		<ul style="list-style-type: none"> Constructs model(s) (labelled drawings, diagrams, etc.) to represent the process or relationship that includes major conceptual or factual errors. 		<ul style="list-style-type: none"> Constructs model(s) (labelled drawings, diagrams, etc.) to represent the process or relationship that includes minor errors. 		<ul style="list-style-type: none"> Constructs accurate model(s) (labelled drawings, diagrams, etc.) to represent the process or relationship.
...communicate procedures in writing?		<ul style="list-style-type: none"> Provides written procedures that are not replicable. 		<ul style="list-style-type: none"> Provides replicable written procedures with descriptions of measurements, tools or instruments, and safety considerations with minor errors. 		<ul style="list-style-type: none"> Provides accurate, replicable written procedures with descriptions of measurements, tools or instruments, and safety considerations.
...complete the task and/or making the product?		<ul style="list-style-type: none"> Produces either a partial product or one that does not meet minimum specifications. 		<ul style="list-style-type: none"> Produces a product that meets minimum specifications. 		<ul style="list-style-type: none"> Produces a product that exceeds minimum specifications.

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What is the evidence that the student can...	No Evidence	Novice	Between Levels	Intermediate	Between Levels	Advanced
...analyze data?		<ul style="list-style-type: none"> Analyzes data using inappropriate methods or with major errors or omissions. 		<ul style="list-style-type: none"> Accurately analyzes data using appropriate methods with minor errors or omissions and/or mentions limitations of data analysis. 		<ul style="list-style-type: none"> Accurately analyzes data using appropriate and systematic methods to identify patterns AND explain limitations of the data analysis (measurement error).
...draw conclusions and communicate results?		<ul style="list-style-type: none"> Uses inaccurate or inappropriate scientific ideas, principles, and/or evidence (experimental data) to construct, evaluate, or revise an explanation. 		<ul style="list-style-type: none"> Uses accurate but minimal scientific ideas, principles, and/or evidence (experimental data) to construct, evaluate, or revise an explanation. 		<ul style="list-style-type: none"> Uses accurate and adequate scientific ideas, principles, and/or evidence (experimental data) to construct, evaluate, or revise an explanation.