

Science Experiment*

Levels:	1	2	3	4	Score
Criteria:					
Data and Observations	Data and observations are incorrect or missing entirely. Relevant units or labels are missing.	Data and observations are incomplete or do not include sufficient details. Relevant units or labels may be missing.	Data and observations are complete and correct.	Data and observations are complete and correct, with all relevant units and labels included. Student provides a level of detail and organization that goes above and beyond requirements.	
Conclusions and Explanations	Conclusions and explanations are missing or do not make sense given student's data and observations.	Conclusions and explanations are incomplete not supported by sufficient details. Relevant data and observations are not referenced.	Conclusions and explanations are complete and supported by student's data. Relevant data and observations and referenced where appropriate.	Conclusions and explanations are complete and supported by student's data. Student provides a level of detail and depth that goes above and beyond requirements.	
Understanding of Science Context	Little to no understanding of science context is evidenced from student's writing.	Some understanding of science context is evidenced from student's writing, but student does not always reason scientifically.	Firm understanding of science context is evidenced from student's writing.	Complete understanding of science context is evidenced from student's writing. Student provides a level of detail and depth that exceeds requirements.	
Materials and Tools	Student is unable to identify many tools and materials. Student does not use materials and tools appropriately or responsibly.	Student is able to identify nearly all tools and materials. Student does not use all tools and materials appropriately or responsibly.	Student is able to identify all tools and materials. Student usually uses tools and materials appropriately and responsibly.	Student is able to identify all tools and materials. Student uses tools and materials appropriately and responsibly.	
Procedure	Student does not correctly follow many aspects of the procedure.	Student correctly follows some aspects of procedure, but makes crucial mistakes or skips some important steps.	Student follows critical aspects or procedure, but has difficulty responding effectively to problems.	Student correctly follows every aspect of the procedure and supplements procedure with effective and inventive additions.	
Collaboration	Student is unable to work cooperatively with lab partners to complete the activity. Requires continual intervention by teacher.	Student simply follows directions of partner(s) and makes little effort to actively contribute.	Student is able to work cooperatively with lab partners to complete the activity, but may not be receptive to partners' ideas.	Student works cooperatively with lab partners to complete the activity, emerging as an effective collaborator who supports the ideas and suggestions of his/her peers.	