## Class Project Experiment Rubric (Grades K-2)

**Using the Rubric:** Begin in the left hand column (Required Elements). Mark each category by circling the description that best matches that element in the project. The final proficiency level is the general trend location (Emerging, Developing or Accomplished) of all the circles on the chart.

<b>Required Elements</b>	Emerging	Developing	Accomplished
Research Question (A	States a research question;	Accurately states research	Accurately states research
question that explains what	but inaccurate, incomplete,	question; but lacks both	question: includes detail
is to be studied.)	or lacks enough detail.	cause and effect (x and y).	and cause and effect $(x, y)$ .
<b>Predictions</b> (Lists the three	States one or more	Accurately states three	Accurately states three
possible outcomes of the	predictions; but inaccurate,	predictions, but lacks clear	predictions that include
experiment; the one that is	or incomplete, or lacks	cause and effect (x and y);	cause and effect (x and y);
most likely to occur is	enough detail to follow.	or no prediction that is	and a prediction that is
identified.)		likely to occur is identified	most likely to occur is identified.
Independent Variable	States what will be changed	Accurately states what will	Accurately states what will
(Describes the one thing	but with inaccurate or	be changed but lacks details	be changed with enough
that the students will change.)	incomplete details.	(tools, quantities, units, method).	detail to assure accuracy.
Dependent Variable	States what will be	Accurately states what will	Accurately states what will
(Describes what the class	measured but inaccurate or	be measured but lacks	be measured with enough
will measure.)	incomplete details.	details (tools, units, how).	detail to assure accuracy.
Set-Up Conditions (The	Lists some constants; some	Lists all constants; lacks	Lists all necessary
things that will be kept	inaccurate or incomplete.	detail or description of how	constants with good detail
constant.)		the conditions are set-up.	and description of set-up.
Materials List (List all of	Lists partial, confusing, or	Lists most materials used;	Lists complete and detailed
the items that will be used	inaccurate materials; lacks	lacks some detail about	set of materials; includes
in the experiment.)	quantities or measurements.	type, quantity or size.	type, quantity and size.
<b>Directions</b> (List of steps in	Gives partial, confusing or	Gives most steps in the	Gives complete list of
order of exactly what was	non-sequential directions;	procedure; lacks proper	directions with detail such
done.)	or lacks enough detail to	sequence or enough detail	that the experiment could
	follow.	to be followed.	be duplicated by another.
Data Collection (Chart	Most data shown; some	Proper chart shown with	Proper chart shown with
with the data that was	data missing, or not	complete data and average;	complete data and average;
measured in the	organized in chart form, or	some units or labels	all units, labels, and detail
experiment.)	missing units or average.	missing; or less than 10	present; 10 or more trials
Graph (Mathematical	Graph shown; some	trials done.  Proper graph shown; most	were done. Proper graph shown; all
picture of the data.)	elements incomplete or	elements complete and	elements complete and
picture of the data.)	inaccurate.	accurate.	accurate.
Results (Tells what	Lists some results; some	Lists most results; most	Lists all results accurately
happened in the	statements inaccurate or	statements accurate and	and with detail.
experiment.)	incomplete.	complete.	and with detail.
	*	-	E1
Explanation (Summary of	Explanation statement	Explanation statement	Explanation is accurate and
findings that evaluate the experimental procedure	present but inaccurate or	present and accurate; but	with specific detail.
and/or possibilities for	incomplete.	incomplete.	
further study?			
Real World Uses (Ways	States one or more uses;	States two possible uses	States three or more
that the information might	but incomplete, inaccurate,	with some detail; or more	possible uses with good
be used.)	or lacks details.	uses with incomplete detail.	detail.
Project Diary and Display	Some elements are missing,	All elements present; most	All elements present with
(Presentation of the class	incomplete or inaccurate.	complete or accurate.	good detail and few errors.
process and project board.)			