

Achievement Chart Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding	No word equation is written for pop going flat.	A word equation is written for pop going flat.	A complete word equation is written for pop going flat.	A complete and accurate word equation is written for pop going flat.
	No chemical equation is written for pop going flat.	A chemical equation is written for pop going flat.	A complete chemical equation is written for pop going flat.	A complete and accurate chemical equation is written for pop going flat.
Thinking and Investigation	Prediction made is lacking in clarity.	Hypothesis lacking.	Hypothesis answers the research question.	Clearly stated hypothesis that thoroughly answers the research question.
	Conducts the experiment, carrying out the procedure safely.	Designs and conducts the experiment, carrying out the procedure safely.	Designs and conducts the experiment, carrying out the procedure safely.	Designs and conducts the experiment, carrying out the procedure safely.
	Data are recorded daily or not organized in a chart.	Records daily data in a chart.	Records daily data accurately in a chart.	Data are well-organized and accurately recorded daily in a chart.
	Findings are not summarized; statement missing.	Findings are summarized;	Findings are summarized; statement made as to whether or not findings support or refute hypothesis.	Findings are summarized; clear statement made as to whether or not findings support or refute hypothesis.

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Communication	Report is poorly written; results are not communicated effectively.	Report communicates some results effectively.	Report communicates results effectively; correct headings used.	Report is very well written and results are effectively communicated with correct headings.
	Few graphs and tables are provided.	Detailed and accurate graphs and tables are provided.	Detailed and accurate graphs and tables are provided.	Detailed and accurate graphs and tables are provided.
Application	Makes connections between science, technology, society, and the environment with limited effectiveness.	Makes connections between science, technology, society, and the environment with some effectiveness.	Expresses opinion using the results of the experiment; makes connections between science, technology, and society.	Expresses opinion using the results of the experiment; makes connections between science, technology, society, and the environment.