SCIENCE NORTH SCIENCE NORD

SUDBURY, ONTARIO, CANADA

States of Matter – Assessment Rubric

Level	1	2	3	4
Initiating and Planning	Asks questions that demonstrate curiosity about the world around him or her.	Asks questions that could lead to investigations, and chooses one that will be the basis for an investigation.	Asks questions that could lead to investigations, and formulates a specific question that will be the basis for an investigation.	Asks questions that arise from practical problems and issues, and formulates a specific question that will be the basis for an investigation.
	Makes "guesses" about possible outcomes of simple procedures.	With support, makes simple predictions about the outcome of the procedure prepared by the teacher.	Makes predictions, based on personal experience, about the results of the investigation.	Makes predictions, based on prior knowledge from explorations and investigations, about the results of the investigation.
	With support, follows the steps in a simple, teacher-prepared procedure for an experiment.	Follows the steps in a simple, teacher-prepared procedure for an experiment.	Creates, from a variety of possible methods, a plan to find an answer to the question he or she has formulated.	Plans for safe experimentation, showing some awareness of variables to be considered.
Performing and Recording	Safely uses teacher-selected tools and equipment to observe and measure.	Selects, with support, and safely uses tools and equipment to observe and measure.	Selects and safely uses tools and equipment to observe and measure.	Selects and safely uses tools and equipment to observe and measure. Recommends other safety measures.
	Records data orally, in pictures, in written words, and/or in tally charts	Records data orally, in pictures, and/or in written words or sentences.	Records and organizes data using standard measurements, sentences, lists, and/or simple labelled diagrams.	Records and organizes data using standard measurements in simple tables, graphs, or charts, or in labelled diagrams.
Analyzing and	Discusses data, and asks new questions	Identifies patterns in the data, and	Identifies patterns and discrepancies in the data,	Identifies patterns in the data, suggests explanations for

Interpreting	based on data.	summarizes the data.	and summarizes the data	discrepancies, and summarizes the data.
	Proposes an answer to the question being investigated, on the basis of observations.	Draws a simple conclusion on the basis of observations.	Draws simple conclusions on the basis of data gathered.	Draws conclusions on the basis of data gathered.
Communicating	Orally recounts steps in and results of an investigation to answer a specific question.	Orally presents steps in and results of an investigation to answer a specific question.	Presents steps in and results of an experimental procedure orally; in charts, graphs, or diagrams; and/or in sentences.	Presents steps in and results of an experimental procedure using numeric, symbolic, graphical, and/or linguistic methods.