

# Grade 7/8/9 Science - Skill Outcomes

Skill Outcomes:

## ***Initiating and Planning***

Ask questions about the relationships between and among observable variables, and plan investigations to address those questions.

- Investigate science related issues
- Identify questions to investigate arising from practical problems and issues
- State a prediction and a hypothesis based on background information or an observed pattern of events
- Select appropriate methods and tools for collecting data and information

## ***Performing and Recording***

Conduct investigations into the relationship between and among observations, and gather and record qualitative and quantitative data

- Research information relevant to a given problem or issue
- Select and integrate information from various print and electronic sources or from several parts of the same source
- Use tools and apparatus effectively and accurately for collecting data
- Estimate measurements

## ***Analyzing and Interpreting***

Analyze qualitative and quantitative data, and develop and assess possible explanations

- Identify strengths and weaknesses of different methods of collecting and displaying data
- Compile and display data, by hand or by computer in a variety of formats, including diagrams, flow charts, tables, bar graphs and line graphs

## ***Communication and Teamwork***

Work collaboratively on problems; and use appropriate language and formats to communicate ideas, procedures and results.

- Evaluate individual and group processes used in planning, problem solving, decision making and completing a task.

## ***Safety***

- students must include knowledge and understanding of WHMIS safety symbols for all components
- students must prepare an MSDS for each component of their experiment