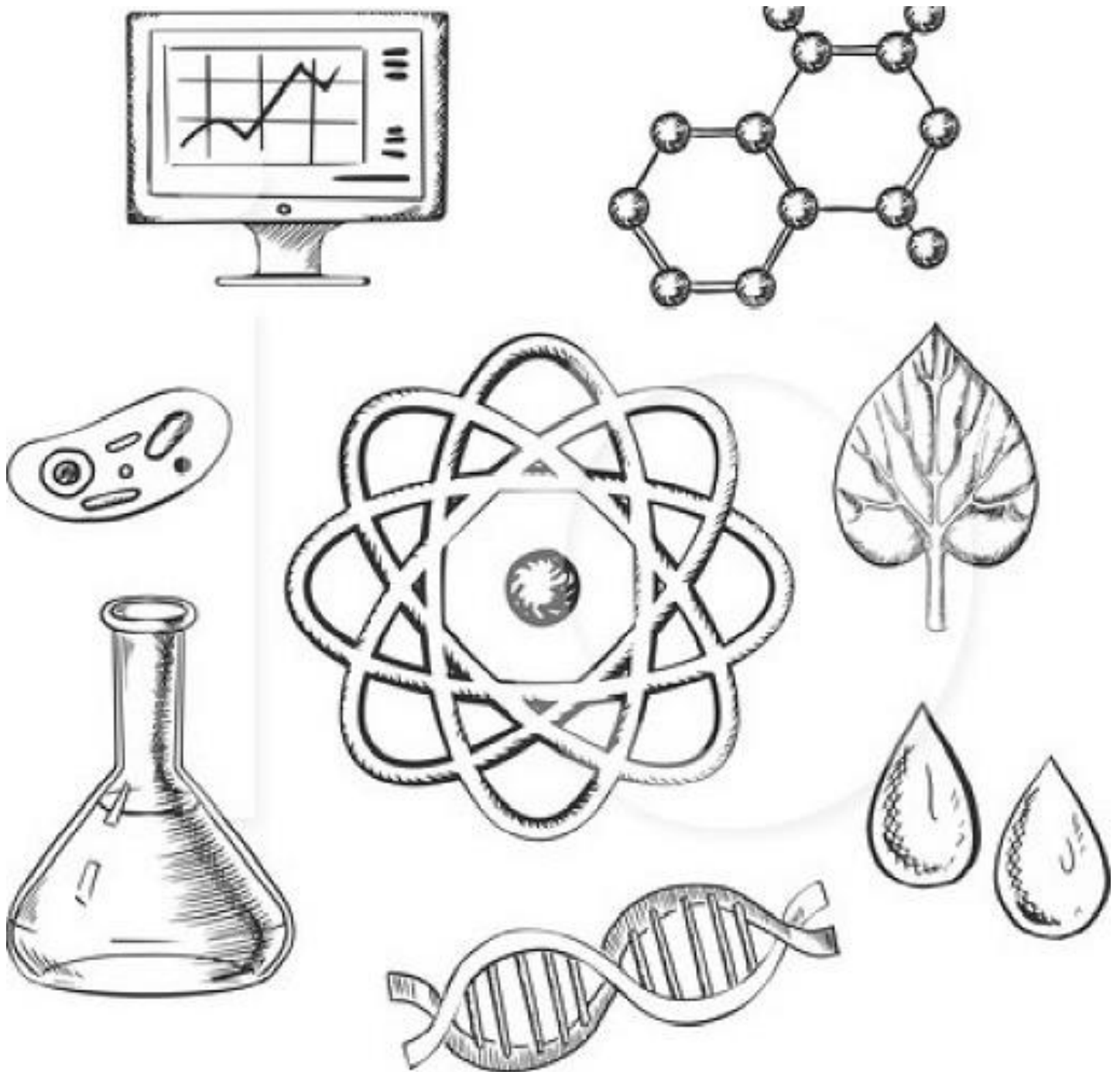


# ILO--Scientific Method and Experimentation



# Basic Science Unit Coversheet

An overview from the Intended Learning Outcomes (ILO) of the Utah State Core Curriculum

Dixie Middle School Earth & Space Science Unit 1—Basic Science

Science ILO – Science and Engineering Practices	
As stated in the Utah Science with engineering Education Standards, science education includes three dimensions of science understanding: science and engineering practices, crosscutting concepts, and disciplinary core ideas. It is the objective of the state core to foster science literacy for all students. Science is a way of knowing, a process for gaining knowledge and understanding of the natural world. In this unit, students will review some of these processes and practice problem solving by providing solutions to real-world problems and explanations to real-world phenomena. These include: making observations, inquiry, questioning, formulating and testing hypotheses, analyzing data, reporting, and evaluating findings.	
Standard ILO.1	➤ <i>Describe and investigate the scientific process.</i>
Standard ILO.2	➤ <i>Describe the purpose of an experiment in the scientific process.</i>
	➤ <i>Explain the functionality of the different groups and variables of controlled experiments.</i>
	➤ <i>Compare and contrast quantitative and qualitative observations and descriptions.</i>
Standard ILO.3	➤ <i>Collect and analyze data during an experiment.</i>
	➤ <i>Describe the nature of science and the characteristics of a good science investigation.</i>
	➤ <i>Explain the limitations of the scientific process.</i>
Important Vocabulary	Hypothesis, observation, inference, data, graph, table, fact, opinion, evidence, inquiry, variable, independent, dependent, qualitative, quantitative.

In the table below, please keep track of your quiz and unit scores for the Basic Science Unit. If you receive a quiz score that is below proficient, please be sure to do a little extra studying on that topic and retake it **within a week of the original quiz**.

Mastery Quiz	Learning Target	Form A	Form B
ILO.1 (Scientific Method)	I can explain the scientific process and how the individual parts work together to help scientists gather information and solve problems.		
ILO.2 ILO.3 (Experimentation and Nature of Science)	I can describe the purpose of experimentation in the scientific process and the parts of a controlled experiment. I can explain the nature of science and describe the limitations and benefits of the scientific process.		
ILO's (Unit Test)	Basic Science Unit Test	Test score	Remediation complete <input type="checkbox"/>