

Study Guide Unit 1: Introduction to Physical Science

Section 1.1: What is Physical Science?

science	predicting	inferring
observing (qualitative vs. quantitative)	chemistry	physics

Section 1.2: Scientific Inquiry

scientific inquiry	controlled experiment	data
hypothesis	communicating	model
parameter	manipulated variable	scientific law
responding variable	scientific theory	

Be familiar with the scientific inquiry process and how steps look in an investigations (like on the quiz)

Section 1.3: Measurement

SI	density	Celsius scale
weight	mass	Kelvin scale
volume	absolute zero	

Be able to convert metric units and translate standard notation into scientific notation and vice versa

Section 1.4: Mathematics and Science

estimate	significant figures	accuracy
reproducibility	precision	

Understand how to measure using significant figures with precision

Section 1.5: Graphs in Science

graph	line of best fit	horizontal axis
linear graph	vertical axis	slope

origin

nonlinear graph

coordinate

data point

Be competent at completely graphing data, plus identifying and analyzing trends using a line of best fit.

Section 1.6: Safety in the Lab and Field

Recognize unsafe practices in lab and field investigation procedures.