

ASSESSMENT 8

Unifying Concepts of Science Paper

Assignment Description

List the unifying concepts of science (systems, order, organization, evidence, models, explanation, constancy, change, measurement, evolution, equilibrium, form and function) as noted in the NSES. Beside each concept, fully describe *in your own words* what/how this concept is relevant/applicable in your science discipline (biology, chemistry, physics). Then briefly describe how this concept provides a connection between your science with at least one more scientific discipline. Finally, select one concept and discuss at least one socially relevant issue surrounding it, the history of the ideas, and one applications of concept in modern society.

NSTA Standards: The program prepares candidates to structure and interpret the concepts, ideas and relationships in science that are needed to advance student learning in the area of licensure as defined by state and national standards developed by the science education community. Content refers to concepts and principles understood through science; concepts and relationships unifying science domains; processes of investigation in science discipline; and applications of mathematics in science research.