

2012 KCTCS General Education Student Learning Outcomes

Henderson Community College Scoring Rubric: Scientific Method and Inquiry

Upon completion of a degree, certificate, diploma, and/or completion of specific courses, the student will apply learning in academic, personal, and public settings to:

Scientific Method and Inquiry

SLOs	Rating	Descriptives			
		4	3	2	1
Demonstrate an understanding of the methods of scientific inquiry		Consistently recognizes and demonstrates the appropriate use of a hypotheses, observation, collection of data, interpretation of findings, and formulates conclusions consistent with data	Often recognizes and demonstrates the appropriate use of hypotheses, observation, collection of data, interpretation of findings, and formulates conclusions consistent with data	Inconsistently recognizes or demonstrates the appropriate use of hypotheses, observation, collection of data, interpretation of findings, and formulates conclusions consistent with data	Rarely demonstrates evidence of understanding hypotheses, observation, collection of data, interpretation of findings or formulation of conclusions consistent with data
Explain the basic concepts and principles in one or more of the sciences		Consistently explains the basic scientific concepts and principles in one or more of the sciences	Often explains the basic scientific concepts and principles in one or more of the sciences	Inconsistently explains the basic scientific concepts and principles in one or more of the sciences	Rarely explains the basic scientific concepts and principles in one or more of the sciences

SLOs	Rating	Descriptives			
		4	3	2	1
Apply scientific principles to interpret and make predictions in one or more of the sciences		Consistently applies scientific principles to interpret, asks the correct questions and comes to appropriate conclusions	Often applies scientific principles to interpret, asks the correct questions and comes to appropriate conclusions	Inconsistently applies scientific principles to interpret, asks the correct questions and comes to appropriate conclusions	Rarely applies scientific principles to interpret, asks the correct questions and comes to appropriate conclusions
Explain how scientific principles relate to issues of personal and/or public importance		Consistently uses accepted documented sources to explain scientific principles related to issues of personal and /or public importance	Often uses accepted documented sources to explain scientific principles related to issues of personal and /or public importance	Inconsistently uses accepted documented sources to explain scientific principles related to issues of personal and /or public importance	Rarely uses accepted documented sources to explain scientific principles related to issues of personal and /or public importance