STUDENT-CENTERED FUNCTIONAL SCIENTIFIC LITERACY

Prepare Students to Engage With Science In Their Personal, Professional, and Civic Futures



Prepare Students to Engage In Real-World Problem-Posing and Problem-Solving, Contribute to Society, and Create Their Own Journey in or with Science

How Are My Community and the World Affected by This Issue, and What Can I Do About It?



Employ Life-long Interests in Science and Integrate Information from Different Areas of Scholarship to Address Community and Societal Challenges



Teach Science as a Way of **Discovering How the World Works**



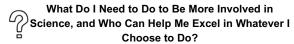
How Did They Discover This Evidence or Figure Out This Explanation, and How Can I Explore Myself?



Practice Science Process, Inquiry, Quantitative, and Analytical Skills



Encourage Student Participation and Help Them Reach Their Potential In Science While Boosting Scientific Self-efficacy





Use Independent, Collaborative, and Innovative Learning Strategies; Seek a Range of Perspectives; Employ a Variety of Thinking Practices and Actions in Scientific Studies; Develop a Growth Mindset



Focus on Learning How Science Is Relevant to Individual Students and Other People



Can I Explain This Information in My Own Words, and How Is This Important to Me and My Family?



Understand and Apply Essential Science Content to the Real World While Communicating and Reflecting on What Is Learned; Make Connections



Help Students Gain a Scientific Attitude and Reasoning Skills to Deal With Scientific Information They Encounter In and Out of Class

(A) What's the Evidence for This Claim, Does It Make Sense, and Can I Defend It?



Evaluate Scientific Evidence and Use Evidence-based Reasoning and Decision-making; Recognize Expertise vs. Anecdotal Evidence and Pseudoscience



Instructor Roles in Developing Scientific Literacy Skills



Student Inquiries to Develop Skills



Scientific Literacy Skills

Key:







