

1125-Q1-2311 **Michael Kerckhove*** (mkerckho@richmond.edu), University of Richmond. *Picking and Choosing: Ten Lectures in Support of Planarian Tissue Regeneration.*

The setting is the opening module in an integrated science course for first-year undergraduates. Student background includes a high-school calculus course. The lab experiments involve amputations, chemical treatments affecting bio-electric signaling during regeneration of body parts, and measurement of behavioral recovery through the assessment of chemotactic ability in the freshwater planarian *S. mediterranea*. The challenges: to provide understanding of mathematical models for these biological processes, to reinforce Calculus I material, and to prepare students for module two physics. A meta-goal for the students and the structuring of assignments in order to achieve that goal will be discussed. (Received September 20, 2016)