

Drug Design Workshop

Engaging context: Earlier this year my class asked for a debate on animal testing. We came to the realization that they knew very little about modern drug design and they were interested in learning more about it.

Goals & objectives: Students will experience modern drug design in its data-driven, multidisciplinary aspects.

Integrated STEM: Students engage with chemistry in the Molecule Sketcher, biology and data-driven technology when they test the affinity of their molecule for its target protein, math when they interpret binding scores, and design when they have to design and redesign their molecule in order to combine and evaluate competing aspects of a drug candidate in order to improve it.