Open-source online homework software, such as WeBWorK, enables instructors to craft just about any problem they can think of. So why do the majority of online homework problems still look like they came straight from a textbook?

This talk will showcase new instructional content, powered by WeBWorK and GeoGebra in tandem, designed to support student inquiry by circumventing the standard ”here’s a problem, now do something with it” homework paradigm. These new problems challenge students to create and solve their own problems; and for instructors, the underlying framework presents rich opportunities for further development and creativity.

This work is funded by Opening Gateways to Completion, a collaborative Title V grant between New York City College of Technology and Borough of Manhattan Community College. (Received September 24, 2018)