Bob Carmichael*, bobc@edfinity.com, and Sid Grover, sid@edfinity.com. A toolkit for breaking expensive textbook/homework bundles: Case studies on using a textbook-agnostic homework system to create affordable online homework to reach every student.

We present a bouquet of diverse case studies showcasing educators who developed low-cost online homework using Edfinity, an open, WeBWorK-compatible homework system supported by the NSF (Award #1758301). Leveraging Edfinity’s community-contributed and peer-reviewed WeBWorK problem repository, educators assembled ‘textbook-agnostic’ homework mapped to both publisher and OER textbooks, thereby ‘unbundling’ expensive textbook/homework bundles offered by commercial publishers and pairing quality online homework with any publisher/OER textbook of choice. The case studies also demonstrate collaboration and reuse of assessments within and across institutional boundaries using Edfinity’s centrally hosted architecture. These efforts have increased equitable access for students at these institutions, and provided a scalable template for other institutions. (Received September 17, 2019)