

cK12.org Flexbook Links to Support Curriculum 2.0 Two-year Algebra 2, Algebra 2, and Honors Algebra 2

This document outlines concepts in each Topic for the Unit. When corresponding resources are available in cK12.org, a hyperlink is provided for the Flexbook. The cK12.org Flexbooks provide a variety of examples, definitions, and extra practice problems related to some of the concepts in Curriculum 2.0 Two-year Algebra 2, Algebra 2, and Honors Algebra 2. The concepts will be developed in greater depth and with appropriate vocabulary in the classroom. The materials in the Flexbooks are intended to provide additional support to the classroom expectations. The vocabulary and methods in these examples may differ slightly from the classroom expectation; however, the overall intent is consistent with the content expectation.

Unit 4: Modeling with Functions

Topic 1: The Modeling Cycle

- Identify parent functions by their algebraic representations and graphs, and construct geometric and algebraic representations of their transformations. ([cK-12 Flexbook Unit 4 Topic 1 SLT 1](#))
- Analyze the graphs of combinations of functions. (no flexbook for SLT 2)
- Understand how the modeling cycle can be used to solve real-world problems. (no flexbook for SLT 3)
- Apply the modeling cycle to model damped oscillation with combined functions. (no flexbook for SLT 4)
- Apply the modeling cycle to model a minimal time problem. (no flexbook for SLT5)
- Apply recursive processes and the modeling cycle to real-world applications. (no flexbook for SLT 6)
- Apply the modeling cycle to model motion parametrically. (no flexbook for SLT 7H)