

# SREB Ready

Many schools need to use the senior year to close the readiness gap and prepare students who aren't literacy-ready for college. SREB's Literacy Ready course is designed to address this specific need.

## Ready for College: *Literacy Ready*

This course utilizes a disciplinary literacy approach that teaches students strategies for reading and understanding complex texts in various subject areas. Students learn to develop and defend ideas from textbooks and write about them in several disciplines such as English, history and biology on a college level. The unit structure conforms to the Literacy Design Collaborative (LDC) framework while addressing college- and career-readiness standards in a challenging curriculum.

### English Unit 1:

#### *The Shallows* by Nicholas Carr

The first English unit has students read informational text from Nicholas Carr's *The Shallows: What the Internet is Doing to Our Brains*, as well as related supplemental texts. For the unit conclusion, students collect evidence for a stance-based synthesis presentation.

### History Unit 1:

#### The Civil Rights Movement

This unit focuses on the Civil Rights Movement and changes in the 1960s. Students draw information from a textbook chapter, a film, a lecture and a number of primary source documents as they learn to read history, recognize implicit and explicit claims and evidence, write a historical account and form related arguments.

### Science Unit 1:

#### Nutrition

Students are introduced to disciplinary literacy in the sciences — learning strategies for reading multiple types of text, including science textbooks, research articles and news articles. They discover a variety of ways to write about science — from personal reflection to public consumption — and to comprehend science information in multiple representations.

### English Unit 2:

#### *Ubik* by Philip K. Dick

The second English unit moves into literary study, using *Ubik* by Philip K. Dick, as the central text. For the unit conclusion, students collect and present evidence for a literary argumentative essay. With a literary argument in hand, students debate a question drawn from the theme of the novel.

### History Unit 2:

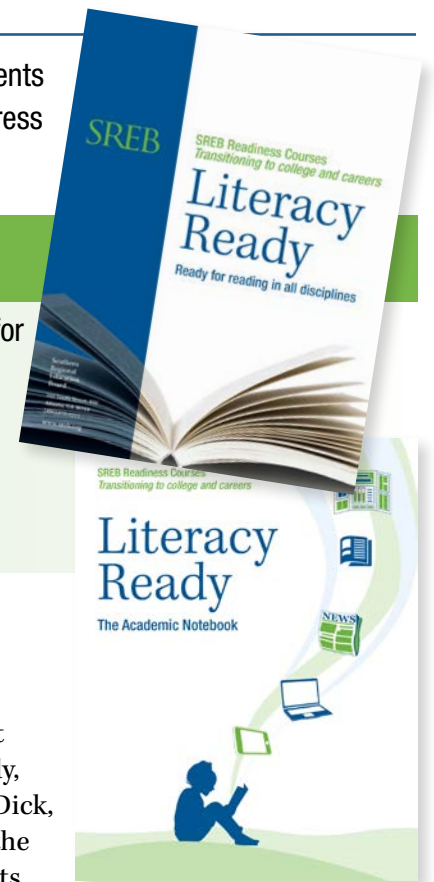
#### U.S. Foreign Affairs

This unit focuses on U.S. involvement in foreign affairs: the Cuban Missile Crisis and the Vietnam War. Students read multiple texts and place a strong emphasis on writing historical arguments.

### Science Unit 2:

#### DNA and Biotechnology

Students extend their understanding of reading and writing in science by reading research articles and textbook materials, taking notes from lecture videos and making predictions using scientific models. Students face increasingly greater depth in writing as they prepare and present an evidence-based scientific poster in a research symposium.



# SREB Ready

Many schools need to use the senior year to close the readiness gap and prepare students who aren't math-ready for college. SREB's Math Ready course is designed to address this specific need.

## Ready for College: *Math Ready*

This course emphasizes an understanding of math concepts, as opposed to memorizing facts. Math Ready students learn the context behind procedures and come to understand the “whys” of using certain formulas or methods to solve a problem. By engaging students in real-world applications, this course develops critical-thinking skills that students will use in college and careers.

### Unit 1: Algebraic Expressions

This unit focuses on strengthening students' understanding of basic numerical operations and manipulations, including multiple representations of equivalent expressions. The unit contains a unique approach that students will find entertaining while facilitating mathematical growth.

### Unit 2: Equations

The equations unit takes a nontraditional, active-learning-based approach to reviewing fundamentals of solving one-, two- and multi-step equations. Topics include linear equations, linear equations that include absolute values and linear inequalities.

### Unit 3: Measurement and Proportional Reasoning

This unit deals with conversions, using proportions for scaling and area and volume. It requires students to show higher-order thinking and number sense, which helps them make connections with math and science or other subjects in an applied setting.

### Unit 4: Linear Functions

This unit takes an in-depth study of linear functions. Students graph and write equations and interpret their meaning in context of the slope and y-intercept. It concludes with students collecting data and writing a line of best fit.

### Unit 5: Systems of Linear Equations

The unit is about solving systems of linear equations. Students classify solutions as well as set up and solve problems using systems of equations. Students choose the best way to solve a system of equations and explain their solutions.

### Unit 6: Quadratic Functions

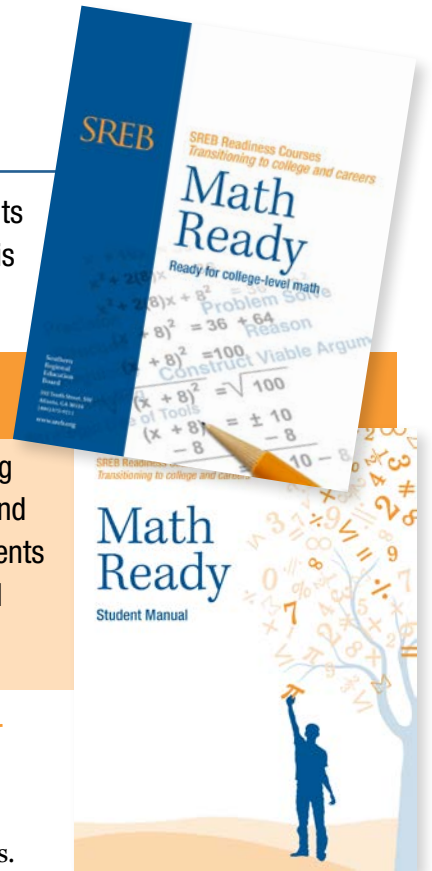
This unit is an expansive look at quadratic functions: their graphs, tables and algebraic functions. It stresses multiple approaches to graphing, solving and understanding quadratics as students explore, make conjectures and draw conclusions in group-work settings.

### Unit 7: Exponential Functions

Students gain fluency in exponential functions through varying real-life financial applications/inquiries. The unit builds understanding of these higher-level functions and lets students reflect upon the ramifications of their future financial choices.

### Unit 8: Statistics

This unit brings an active-learning approach to probability and statistics. The primary emphasis is on linear regression and fitting equations to data. Simple probability topics support the understanding of regression, and some attention is given to normal distributions.



Improve student outcomes in your school or district.

Contact John Squires at [Ready@SREB.org](mailto:Ready@SREB.org) for more information about the Ready for High School or Ready for College courses.