

Supporting the Transition to Digital Learning

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Joint Commission on Technology and
Science
Broadband and Education Advisory
Committee

June 11, 2013

Beyond Textbooks

- Understand the technical, social, and policy challenges of transitioning from print to digital textbooks
- Explore new ways to access, organize, and deliver high-quality content using various tools and platforms
- Understand the conditions necessary for successful implementation in schools

BEYOND TEXTBOOKS

YEAR ONE REPORT

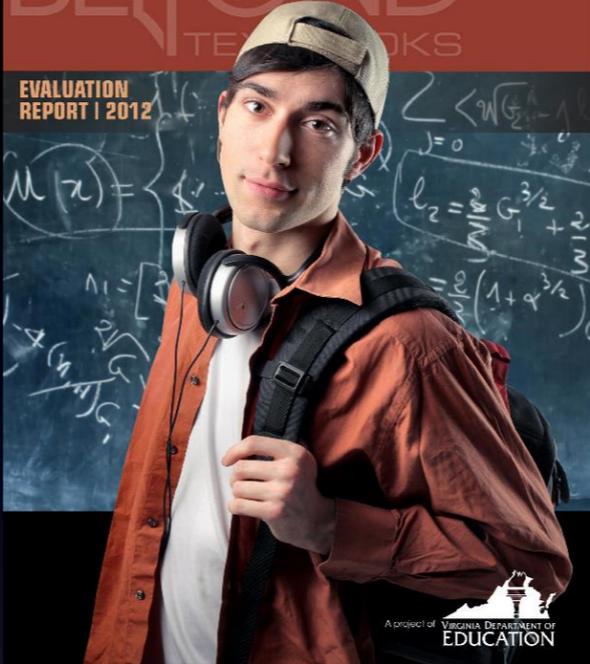
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BEYOND TEXTBOOKS

Putting on the eLearning Backpack with TI-Nspire™ Technology

EVALUATION REPORT | 2012



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BEYOND TEXTBOOKS:

THE LEARNING RETURN ON INVESTMENT
Total Cost of Ownership Report

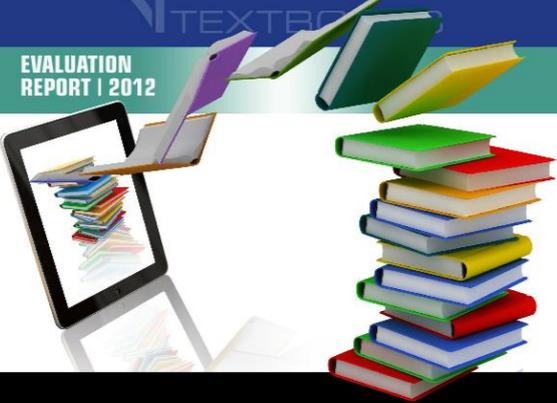
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October 2011



BEYOND TEXTBOOKS

Beyond Textbooks:
Digital Textbooks in an
Online Course

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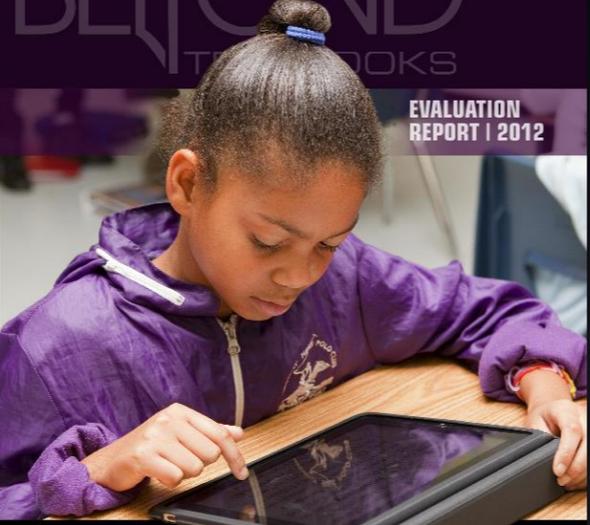


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BEYOND TEXTBOOKS

Support for Differentiation:
Implementing eSpark

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The HMH Fuse:
Algebra / App Pilot Report

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WELCOME to eMediaVA

eMediaVA is Virginia's premier statewide digital media distribution system featuring the best "purpose-built" educational content available. Brought to you by the Virginia Public Media Stations* and PBS, eMediaVA is constantly evolving to better meet the needs of Virginia's teachers and students. What's even better, eMediaVA is free for Virginia's teachers and students! Please visit the [About Us](#) page to get connected.

* Blue Ridge PBS, Roanoke; Community Idea Stations, Richmond; WETA, Arlington; WHRO, Norfolk; and WVPT, Harrisonburg.

Featured Content



Ancient History: The Maya

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Professional Development



The next class is:

Graphic Organizers for 21st Century Learning
30 hours/6 weeks
TECH195 - Mon, 1/14/2013 to Sun, 2/24/2013

COST: \$295 | [Register](#)



The next class is:

Interaction Speaks Louder Than Words: Incorporating Web 2.0 Tools into the Classroom
10 hours/5 weeks
AKTECH106.108
Mon, 1/7/2013 to Sun, 2/10/2013

COST: \$175 | [Register](#)

Search by VA SOL...

nanotechnology

Library

Filters

Search results for: "nanotechnology" (69)

Page 1 of 7 (results 1 - 10)

Nano: Kids on Nanotechnology
In this short, discussion-starter video from DragonflyTV Nano, everyday kids offer their thoughts on the following question: "When I think of nanotechnology, I think of..."
Science 2 mins

Nano: Kids on Nanoproducts
In this short, discussion-starter video from DragonflyTV Nano, everyday kids offer their thoughts on the following question: "Would I want to know if a product was made with nanotechnology?"
Science 2 mins

Nano: Nanotechnology Music Video
In this music video from DragonflyTV Nano, Dr. Lodge McCammon sings about the potential discoveries and uses of nanotechnology.
Science 2 mins

What Can Nanotechnology Do for You?
This interactive activity produced for Teachers' Domain examines five areas of research and innovation in nanotechnology.
Science

Nanotechnology
Imagine the smallest thing that you can see and then imagine that we can make things that are 1/1000 that size. Guide your students through the science of nanotechnology!
Mathematics

VA Standards [Tag for SOL...](#)

as are best known for their spectacular centers, but they are also the most civilizations.

Virginia on iTunes U

iTunes U > Virginia Department of Education

COMMONWEALTH OF VIRGINIA

"I look to the diffusion of light and education as the resource most to be relied on for ameliorating the conditions, promoting the virtue and advancing the happiness of man."
- Thomas Jefferson

What's New 1-8 of 50 See All >

Sort By: Release Date

- Making Waves: National Oceanic and Atmospheric Administration
- Internet Safety: Virginia Department of Education
- Special Education: Virginia Department of Education
- The Story of Virginia: Virginia Historical Society
- Union or Secession: Library of Virginia
- Tech Tutorials: Radford University
- Virginians at War: Virginia War Memorial
- Shaping the World: Conversations with Thomas Jefferson's Poplar Forest

Top Downloads

Name	Collection	Artist	Time	Popularity	Price
1 Robert E. Lee: His Life and Legacy	Civil War in Virginia Series	Blue Ridge PBS	58:54	██████████	FREE
2 Jackson in the Shenandoah	Civil War in Virginia Series	Blue Ridge PBS	56:50	██████████	FREE
3 America's Bloodiest Day: Twelve Hours at Gettysburg	Civil War in Virginia Series	Blue Ridge PBS	36:24	██████████	FREE
4 Riding the Rails to Victory: Railroads in the Civil War	Civil War in Virginia Series	Blue Ridge PBS	54:29	██████████	FREE
5 2011_10_20 Height Modernization	Diving Deeper	National Ocean Service	18:59	██████████	FREE
6 Thomas Jefferson and George Washington	Shaping the World: Conversations with Thomas Jefferson's Poplar Forest	Thomas Jefferson's Poplar Forest	58:21	██████████	FREE
7 Arthur Ashe (1943-1993)	African American Trailblazer	Producer Eric A. Fullerman	4:48	██████████	FREE
8 2010_01_27 What Are the Benefits of Ocean Diving?	Diving Deeper	National Ocean Service	17:35	██████████	FREE
9 #15 Battle of Williamsburg	Virginia Trekkers	Virginia Trekkers	14:05	██████████	FREE
10 Forgotten Battlefields: The Civil War in Virginia	Civil War in Virginia Series	Blue Ridge PBS	55:07	██████████	FREE
11 Petersburg: Graveyard of the Confederacy	Civil War in Virginia Series	Blue Ridge PBS	56:57	██████████	FREE
12 Tragic Victory: The Battle of Chancellorsville	Civil War in Virginia Series	Blue Ridge PBS	56:50	██████████	FREE
13 Bitter April: Lee's Retreat Across Virginia	Civil War in Virginia Series	Blue Ridge PBS	57:29	██████████	FREE
14 Tobacco and Labor	Jamestown: A Fruitful Soil	Steve Clark	2:00	██████████	FREE
15 England in 1607	Jamestown: A Fruitful Soil	Steve Clark	2:00	██████████	FREE

Total: 25 Episodes

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Categories

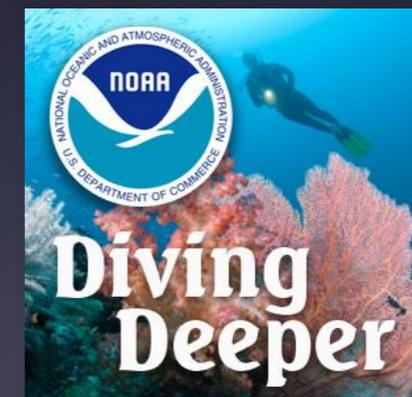
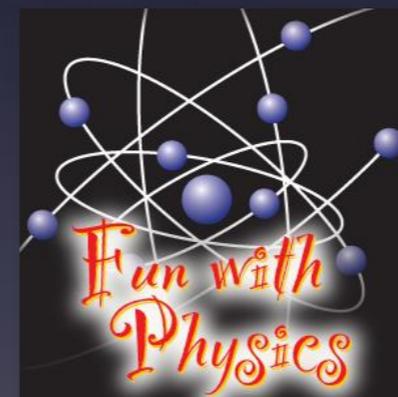
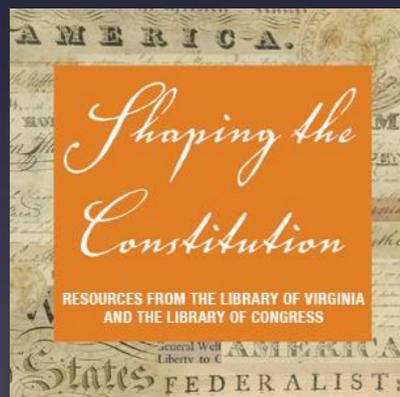
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- Language
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- Science
- Social Science
- Teaching & Education

Top Collections

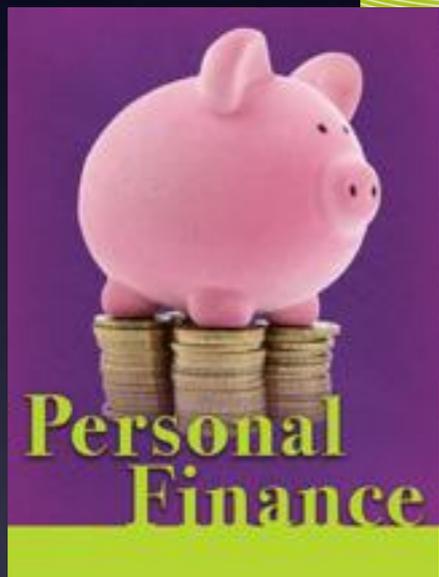
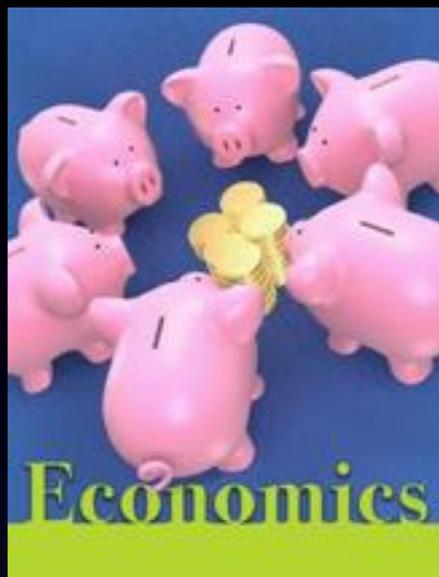
- Economics and Personal Finance: Virginia Department of Education
- BackStory with the American History Podcast: WFH Radio at the Virginia Foundation for the Humanities
- Civil War in Virginia Series: Blue Ridge PBS
- Reading Comprehension Strategies: Virginia Department of Education
- Special Education: Virginia Department of Education
- Union or Secession: Virginians Decide: Library of Virginia
- The Story of Virginia: Virginia Historical Society
- Tech Tutorials: Radford University
- Virginians at War: Virginia War Memorial
- Shaping the World: Conversations with Thomas Jefferson's Poplar Forest

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Creating Accessible iTunes U Content
Guidelines for Providing Content



iBooks



2:59 PM 86%

1.2 Trade-Offs and Opportunity Costs

Scarcity forces people to make choices. Economics is all about choices. Whenever you make a choice, there is an **opportunity cost** associated with that choice. Opportunity cost is the value of the next best alternative other than the choice that was made. Opportunity costs can help you better analyze and understand decision making. This module will discuss how scarcity forces people to make trade-offs. A **trade-off** is when you give up something to gain something else.

Additionally, this module introduces the **PACED decision-making model**, which helps people choose among various options.

Standards

22

2:59 PM 86%

Career Connection

What can you do with a major in economics? Economics majors have a wide variety of careers available to them upon graduation.

Gallery 1.1.2 Famous Economists

Economists in the **corporate world** include Ted Turner of CNN, Meg Whitman of eBay, and Diane von Furstenberg, fashion designer.

Video 1.1.1 More Career Options

To find out more information about career options (including salary information), visit the American Economic Association's career Web site at aeaweb.org. The following video clip offers some insight on more career options:

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Module 1.1: Scarcity 18

3:07 PM 85%

Costs and Benefits of Trade

Cartoon 4.15.2 Cost and Benefits of Trade

Benefits of Trade
As long as **trade** is voluntary, both parties stand to benefit, and neither loses anything. This means that people gain because of trade. Consider the example of the T-shirt Akiko bought. If both the shopkeeper and Akiko value the shirt the same, then, because of trade, Akiko benefits by getting a shirt, while the shopkeeper receives \$20 for the shirt and is satisfied. So, voluntary trade also benefits sellers because they would not agree to the trade if they did not expect to gain.

Trade also grants access to important resources. For example, China controls more than 90% of some of the rarest minerals in the world. Most other countries do not have access to these minerals. If China stopped trading, other countries would not have access to these minerals. Another example is African countries that have diamond mines. If these nations did not trade, the rest of the world would be left with very few diamonds. In this way, trade gives countries access to rare resources they do not have.

Why do countries continue trading despite sustained **trade deficits**? Is there more to trading than meets the eye?

Trade does not just bring money into a country. When you walk into a store, notice how many things are made in different countries. If trade did not exist, you would have fewer options to choose from. For example, when Akiko walks into a shoe store, she will find a variety of shoes in different styles and colors at different prices.

Module 4.15: Costs and Benefits of Exchange 208

Carlos's Weekly Baking Possibilities

Look at the completed graph. Suppose that last week, Carlos produced at point A, 24 cookies and 0 brownies. This week, he would like to bake 6 brownies as well; however, he does not have the resources (time or oven space) to bake 24 cookies and 6 brownies (notice that this point is beyond Carlos's production possibilities).

He *does* have the resources to produce at point B—12 cookies and 6 brownies. This means that Carlos has to give up 12 cookies ($24 - 12 = 12$) in order to produce the additional 6 brownies. In other words, Carlos's opportunity cost of producing 6 brownies is 12 cookies!

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Timelines

Cake I love donut cookie sesame snaps wypas Cookie wafer bonbon danish marshmallow.

Pudding sweet I love donut jelly-o marzipan apple pie gingerbread. Muffin jelly

Graphs

Cake I love donut cookie sesame snaps wypas Cookie wafer bonbon danish marshmallow.

Pudding sweet I love donut jelly-o marzipan apple pie gingerbread

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School Speed Test

- Partnership between VDOE and EducationSuperHighway
- Part of a national effort to measure bandwidth in every classroom in the U.S.
- Focuses on the student and teacher experience
- Launch scheduled for October



Virginia  Learning
BACKPACK INITIATIVE

BACKPACK INITIATIVE

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