Teaching English Language Arts with GIS

Frqqhfwlqj#U hdglqj/#Z ulwlqj#dqg#Wk lqnlqj# z lwk #54 W Fhqwx u | #Vwx ghqw



Barbaree Ash Duke

Veteran Teacher & Educational Consultant

Why?

"Experience is an author's most valuable asset."

~ Mark Twain

GIS offers real experiences for a subject that has an ethereal reputation.

Exploring the globe is **NOT** discipline specific.



Imprinting content material in their minds and showing purpose has powerful implications.



Authors, Setting & Context

READING

Understanding an Author's Life

Mark Twain

- Life on the Mississippi River
- Additional Reading (before the novels) on River Conservation (Chad Pregracke)

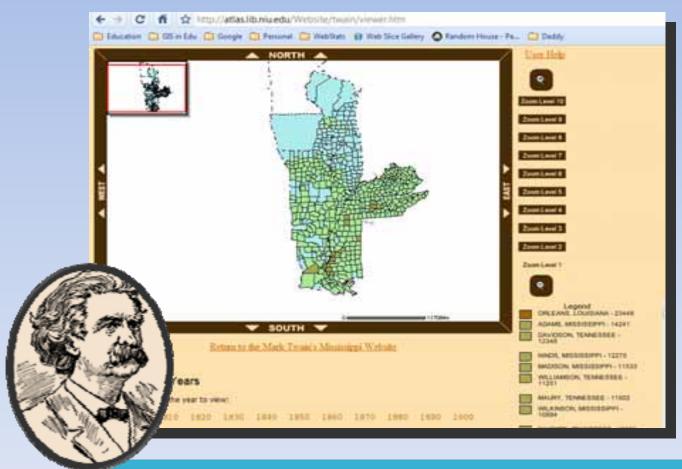


Charles Dickens

- Child Labor
- Poverty
- Industrial Revolution
- Economics



Whom Did He Meet?



http://atlas.lib.niu.edu/Website/twain/viewer.htm

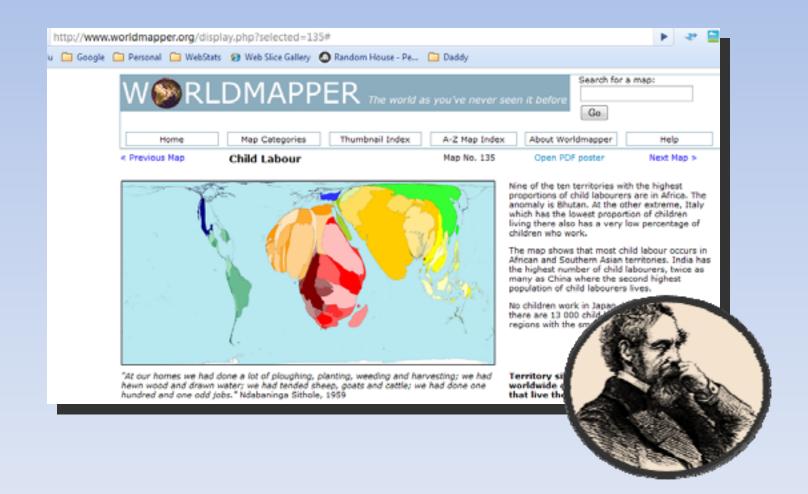
Living Lands and Waters



Child Labor in the Modern World

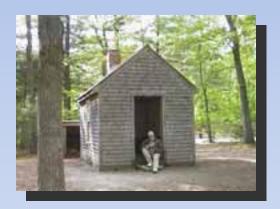


Worldmapper



Virtual Field Trips to Setting and Context

Walden Pond



http://home.windstream.n et/ernie.seckinger/Concor dPhotos/replica.jpg

Julius Caesar

http://www.emerson kent.com/maps.ht



Geography, Math and History of Walden Pond

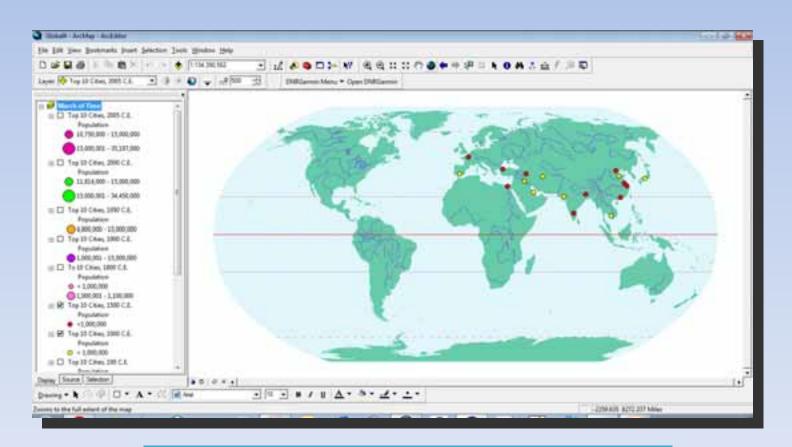
From Wikipedia...

- Walden Pond
 - 42.4384°N 71.3420°W
 - Walden Pond is a glacial, kettle-hole pond, with no surface water flowing in or out. Water levels in the pond are determined by precipitation and surrounding groundwater levels. The pond is the deepest lake in the Commonwealth, measuring nearly 90 feet at its deepest.
- Formed by retreating glaciers 10,000–12,000 years ago.
- Great connection to "Water World" activity in *Our World* Books

Surprise them with content that they don't expect in English class!

http://www.mass.gov/dcr/parks/walden/

Applying Context



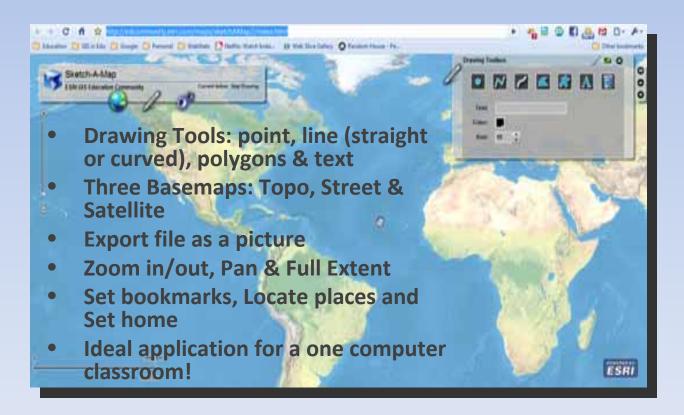
Our World Series, Book 2, Module 4, March of Time



Persuasion, Research & Experience

WRITING

Picturing Vocabulary



http://edgis.org/sketch

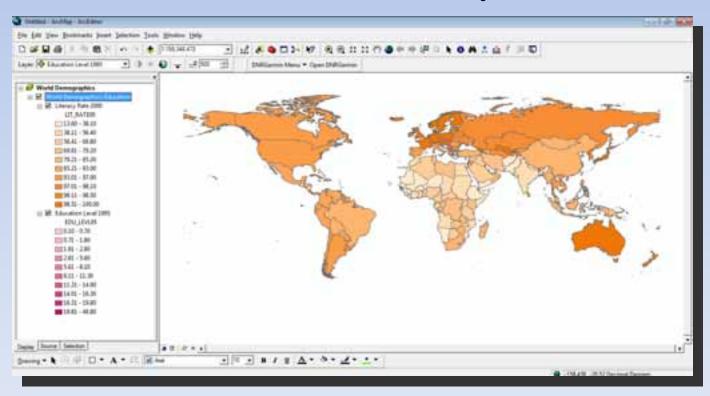
Persuasion

We often hear about literacy issues in countries beyond the USA. Organizations work hard to insure more children and adults learn to read and communicate. Should we allocate more resources within the USA or in other countries? Why?



Persuasion

We often hear about literacy issues in countries beyond the USA. Organizations work hard to insure more children and adults learn to read and communicate. Should we allocate more resources within the USA or in other countries? Why?



Research

- Upper High School & College (some topics are controversial)
 - http://www.midway.edu/library/topics
 - http://www.tcc.edu/students/resources/writcent/handouts/ writing/restopics.htm
 - http://www.nwmissouri.edu/library/courses/english2/termin dex.htm
- All Middle and High School
 - http://mail.avon.k12.ct.us/~kbolch/researchtopics

NATIONAL ATLAS



http://www.nationalatlas.gov



How Do You Teach Your Students to think?

or

Do you expect them to think?

THINKING

Thinking...

- Guided Inquiry
- Analyzing connections and patterns in history
- Analyzing how setting and environment affects people
- Drawing conclusions from research
- Appreciating context and why it's important in analysis

...the REAL MAGIC.

Resources

- Resources and Downloads and Free stuff...oh my! www.barbareeduke.com
- STEM Lessons (<u>www.isat.jmu.edu/stem/curriculum.html</u>)
 - Collection of 14 lessons which are all available in versions for ArcMap, AEJEE and My World GIS
- ArcLessons (<u>http://edcommunity.esri.com</u>)
- Blogs (<u>http://gisined.blogspot.com</u>)
- Tweeting Tidbits
- New Publications:
 - Reading, Writing and Thinking Around the Globe: Geospatial Technologies for the English Language Arts Classroom and Beyond (Available at www.gisetc.com/shop/)
 - 20 Minute GIS (Available at <u>www.gisetc.com/shop/</u>)
 - Collection of Activities for ArcGIS Explorer with ArcGIS Online content

Barbaree Duke

barbareeduke@gmail.com

www.barbareeduke.com

http://gisined.blogspot.com





















