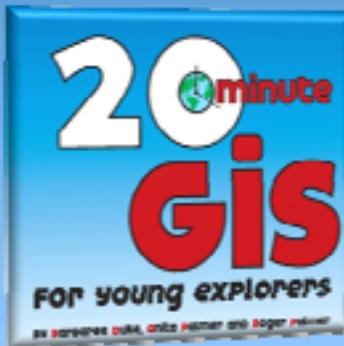


20 Minute GIS for Young Explorers

with Anita Palmer and Barbaree Duke

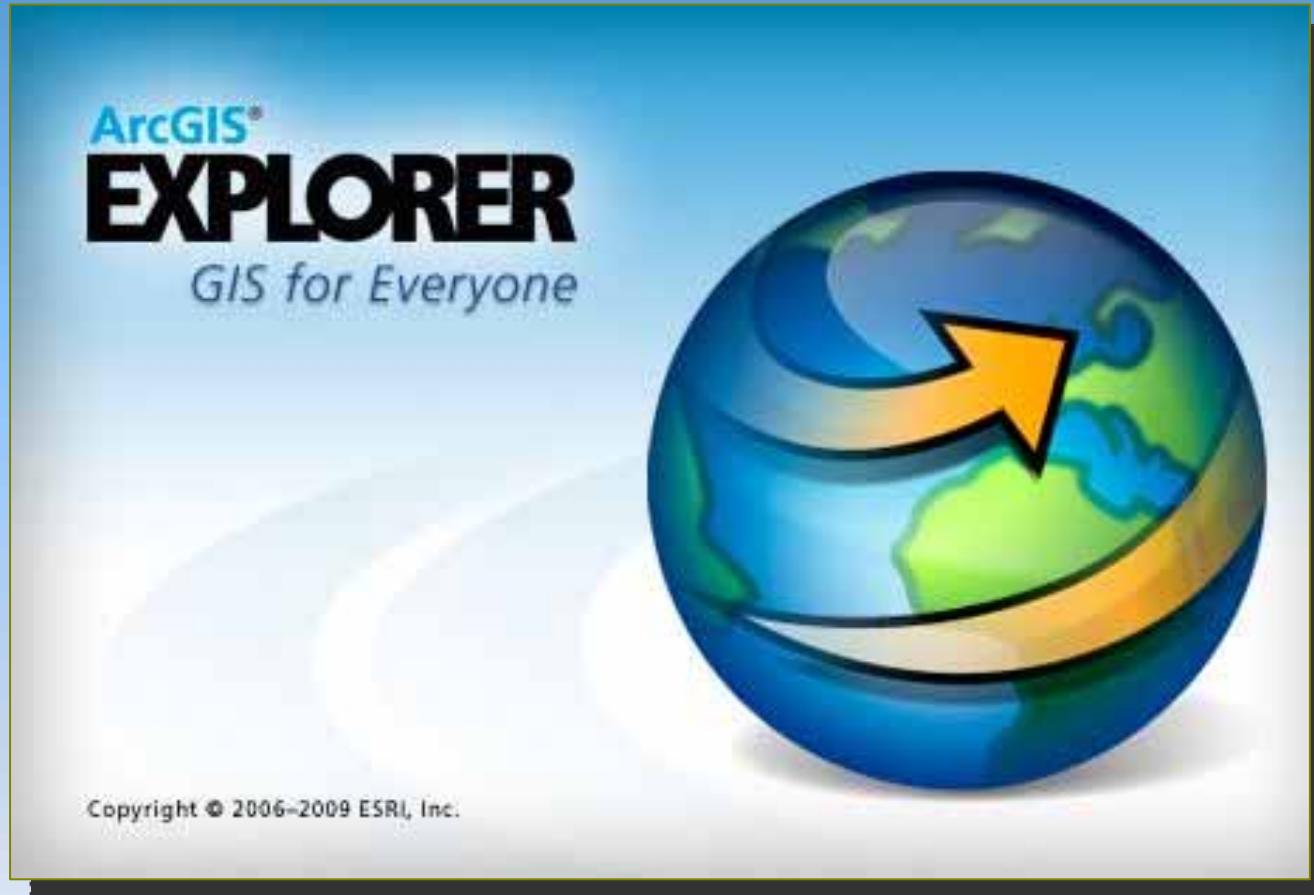
Because Classroom Teachers...



- Want to add geospatial elements to their classroom.
- May have only one computer in the classroom.
- Have very little time in computer lab.
- Need to augment key concepts.
- Have minimal technology skills.
- Have minimal GIS skills.
- Are not permitted to use Google Earth, but want a virtual globe experience for students.
- Have just 20 minutes to explore new technology.

We created 20 Minute GIS!

GIS Tool



Free Virtual Globe Software from ESRI

<http://edcommunity.esri.com/software/agx/>

Search ArcGIS Online

The screenshot shows the ArcGIS Online interface. At the top, there is a navigation bar with links for 'Resource Center', 'Show: All Content', 'Barbaree Duke', 'Notifications', 'Help', and 'Sign Out'. Below the navigation bar, there are tabs for 'AP', 'GROUPS', and 'MY CONTENT'. A search bar contains the text '20 minute GIS' with a magnifying glass icon. A red circle highlights the search bar and the 'Show: All Content' link.

Search Results

15 results for '20 minute GIS'

Breakfast
These thematic representations of breakfast foods sources are created from the agricultural census data available at National Atlas ([www.nationalatlas.gov](#)) from USGS.
Layer Package by [baduke](#) (last modified: April 29, 2010)
[View details](#) (0 ratings, 0 comments)

grid
Explorer Map by [baduke](#) (last modified: February 25, 2010)
[View details](#) (0 ratings, 0 comments)

Joburg
Explorer Map by [baduke](#) (last modified: March 19, 2010)
[View details](#) (0 ratings, 0 comments)

World Time Zones
This layer presents time zones of the world. The layer

Related Searches

Find items published by ESRI related to "20 minute GIS"
Find groups related to "20 minute GIS"

<http://www.arcgis.com>

Ready-to-Use Activities

Plus all the
ancillary materials
for successful
implementation!

Tic-Tac-Toe, Where Can You Go?

INTRODUCTION

Do you like to play Tic-Tac-Toe? Our planet is one big game board—a system of lines that are carefully numbered so that we can pinpoint where we are on the grid. The earth's grid system is known as latitude and longitude coordinates. Curiously, it's related to something we do in math class called coordinates where each point is assigned a location (x, y). On the globe, y is our latitude (north or south) and x is our longitude (east or west) that we represent as N, S, E, and W. Let's look at the globe and find the connections between math and geography!

INSTRUCTIONS

Launch ArcGIS Explorer 900.

Click the globe button, open **grid.mxd**. There is a grid system on the globe. The yellow lines help us navigate. Move the globe around to Africa. The two lines cross each other. At that point where they intersect, the coordinates are $(0, 0)$.

Look at the labels and ↗ answer Questions 1 & 2.
Double-click on $30^{\circ}\text{N }90^{\circ}\text{W}$ in the Contents window.

↗ Answer Question 3.

Double-click on $30^{\circ}\text{S }90^{\circ}\text{W}$ in the Contents window.

↗ Answer Question 4.

Double-click on $30^{\circ}\text{N }90^{\circ}\text{E}$ in the Contents window.

↗ Answer Question 5.

Double-click on $30^{\circ}\text{S }90^{\circ}\text{E}$ in the Contents window.

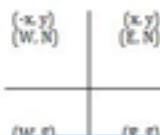
Use the measure tool to discover how many miles this spot is from the Equator.

↗ Answer Question 6.

Change the map to 2D. Double-click "Base Map" in Contents. ↗ Answer Question 7.

QUESTIONS

1. What is the line's name that separates North from South?
2. What is the line's name that separates East from West?
3. What city are you nearest at $30^{\circ}\text{N }90^{\circ}\text{W}$? What feature is labeled near this location?
4. Where are you at $30^{\circ}\text{S }90^{\circ}\text{W}$? What country are you nearest?
5. What is the geographic feature at $30^{\circ}\text{N }90^{\circ}\text{E}$? What country are you in?
6. Where are you at $30^{\circ}\text{S }90^{\circ}\text{E}$? How far is the closest land?
7. What shape do these points form?



Name: _____ Class: _____ Date: _____

Tic Tac Toe, Where Can You Go? Student Answer Sheet

1. What is the line's name that separates North from South?
2. What is the line's name that separates East from West?
3. What city are you nearest at $30^{\circ}\text{N }90^{\circ}\text{W}$? What feature is labeled near this location?
4. Where are you at $30^{\circ}\text{S }90^{\circ}\text{W}$? What country are you nearest?
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7. What shape do these points form?

Extras:

- Teacher Instructions
- Answer Keys
- National, Texas and Virginia Standards Correlations
- Got an hour? Activity Extensions included!
- How-to Videos

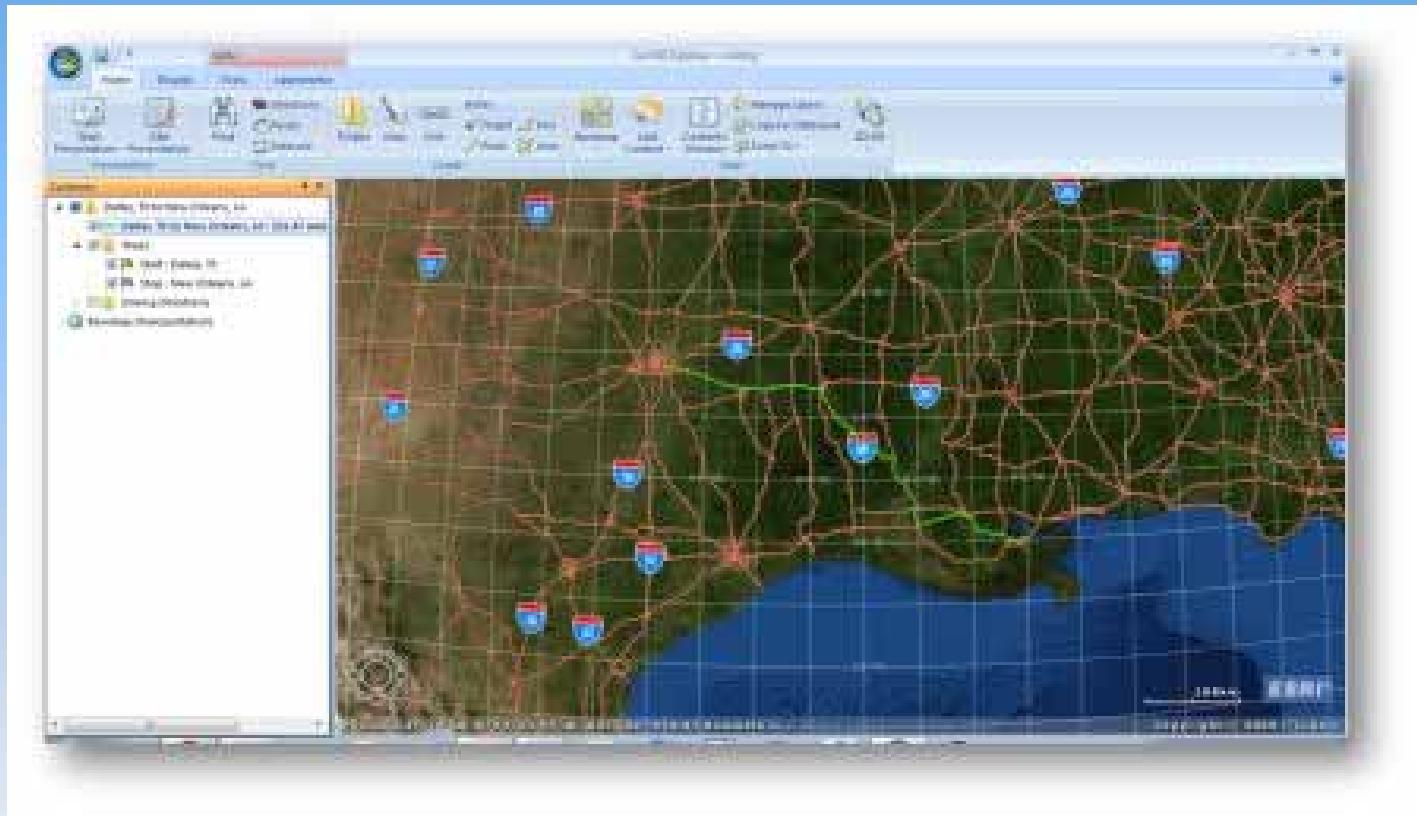
Coordinate Systems
Time Zones & Inequalities
Routing & Measuring

MATH

Tic Tac Toe, Where Can You Go?



Time Travelling



Are We There Yet?



Biomes

Rivers

Food web

SCIENCE

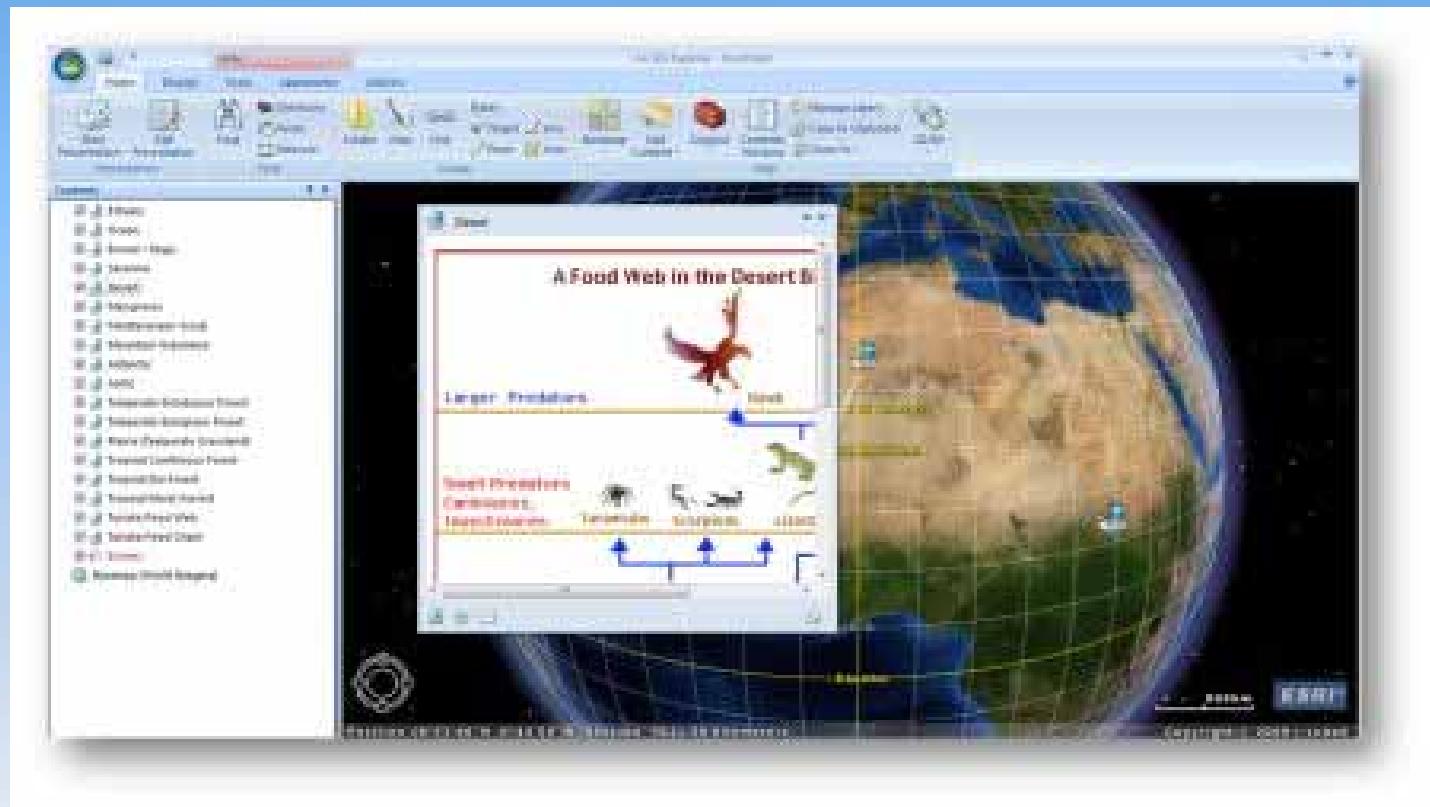
Home Sweet Biome



Going with the Flow?



Don't Eat Me!



Adventures in the Red Book

The Red Book

Earth: Poetry in Motion

“Awesome Forces”

Somewhere in the World

Somewhere in the World Right Now

ENGLISH LANGUAGE ARTS

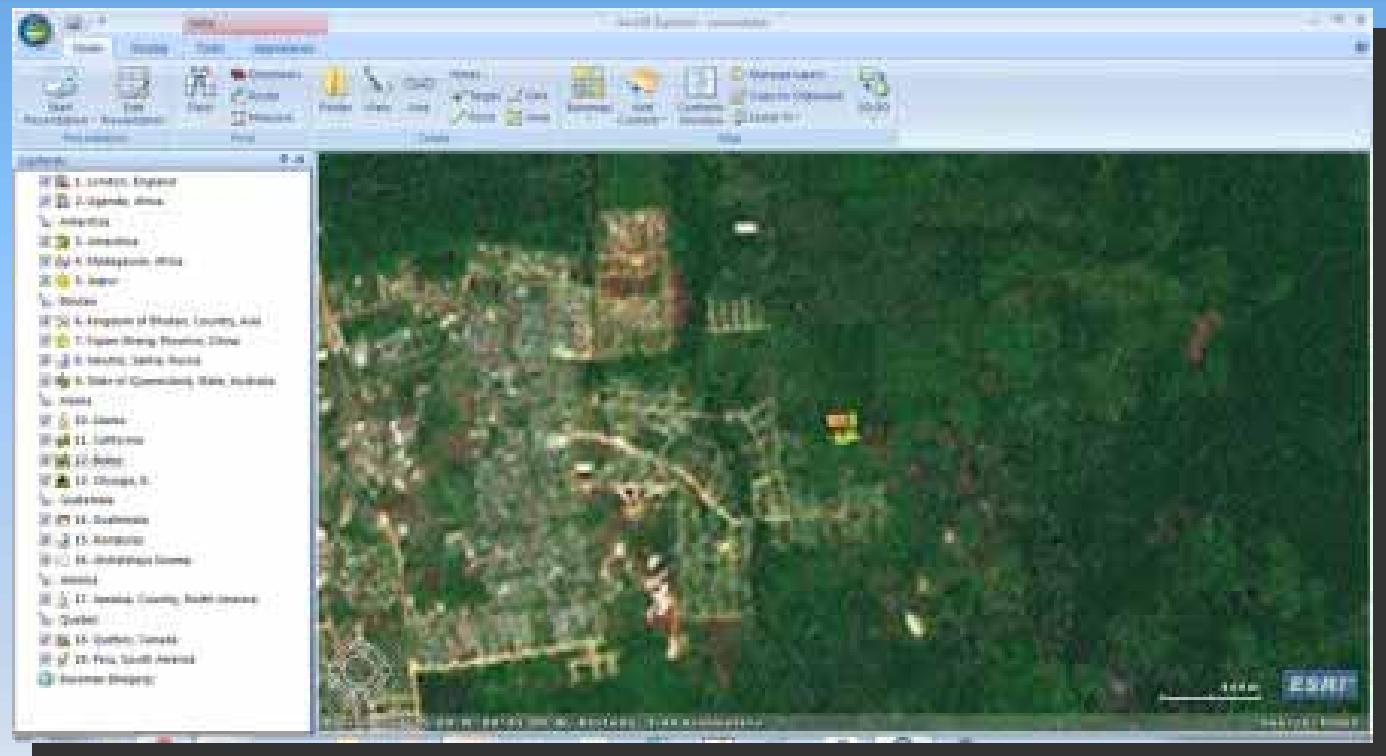
Adventures in the Red Book



Earth: Poetry in Motion



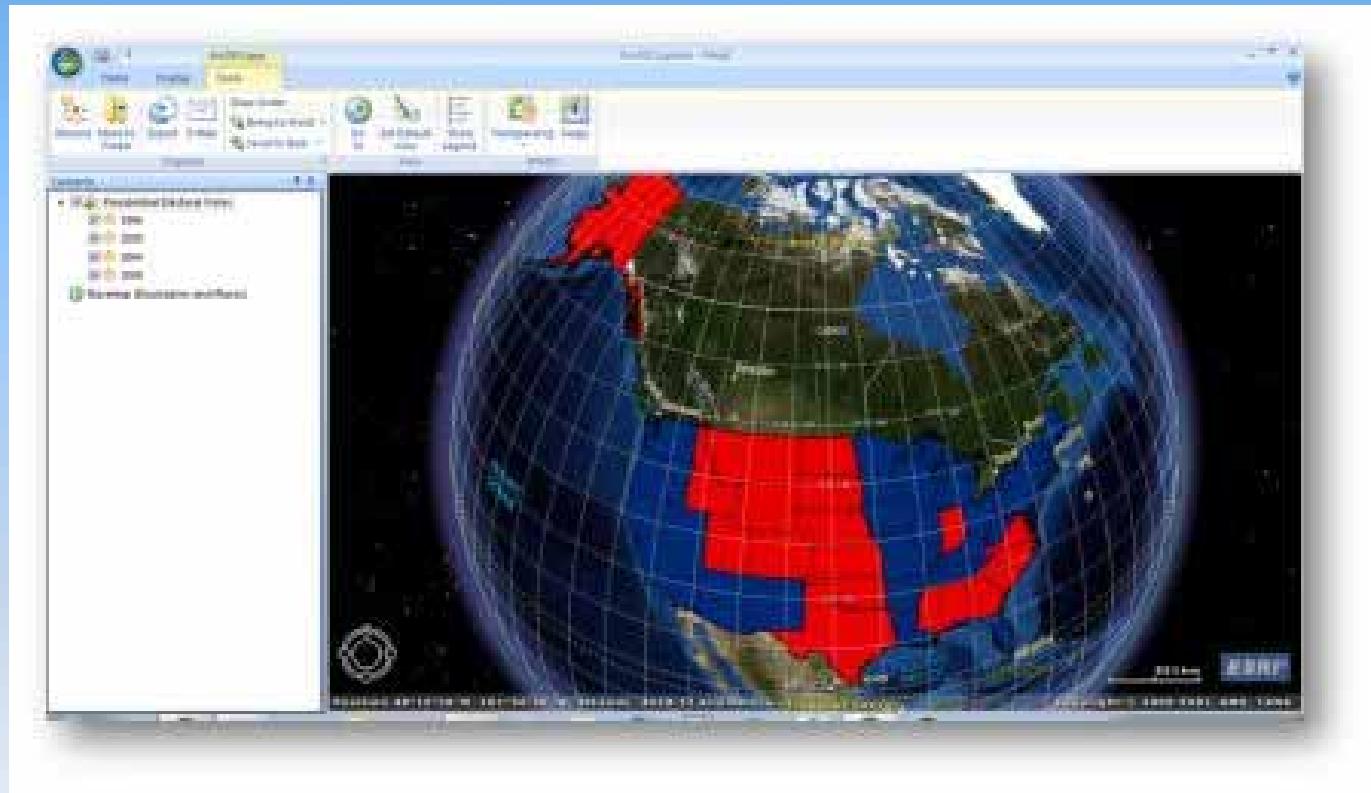
Somewhere in the World



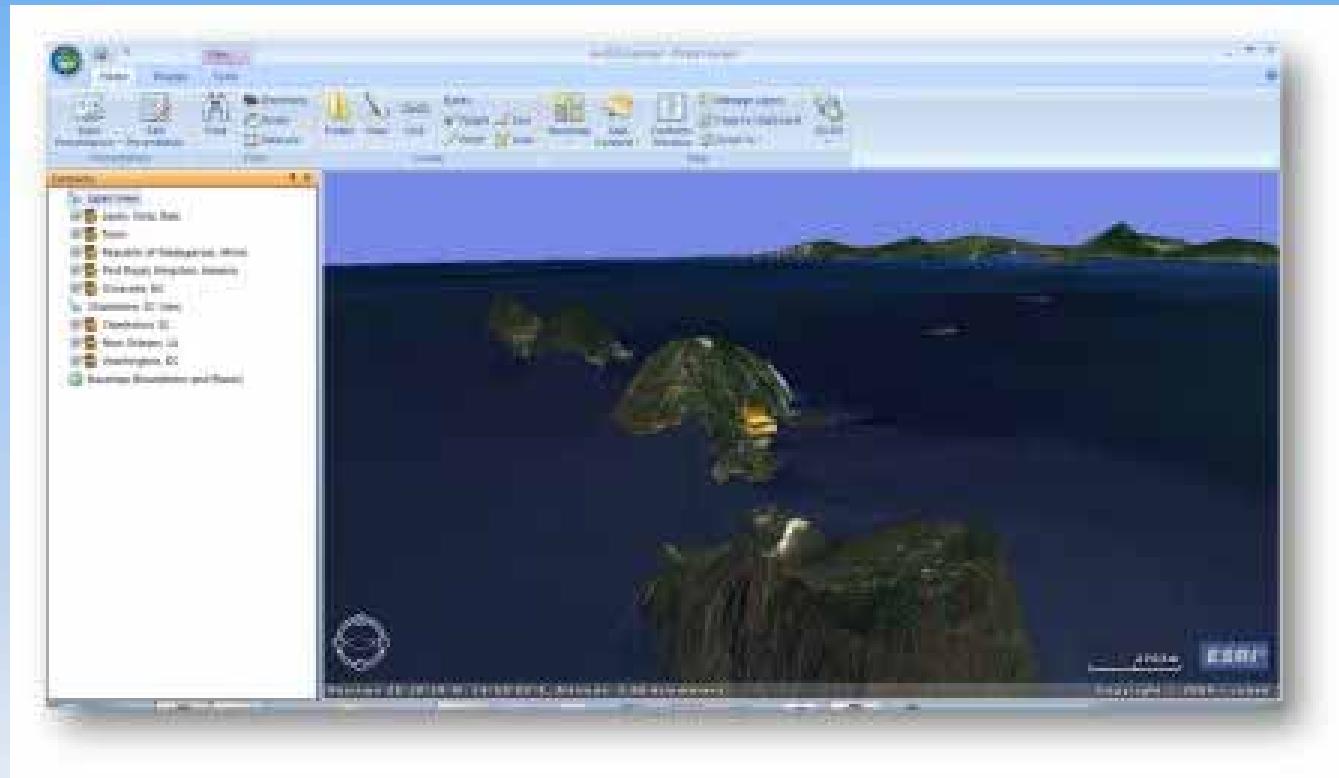
Voting Trends
Pirates' Havens
Agriculture

SOCIAL STUDIES

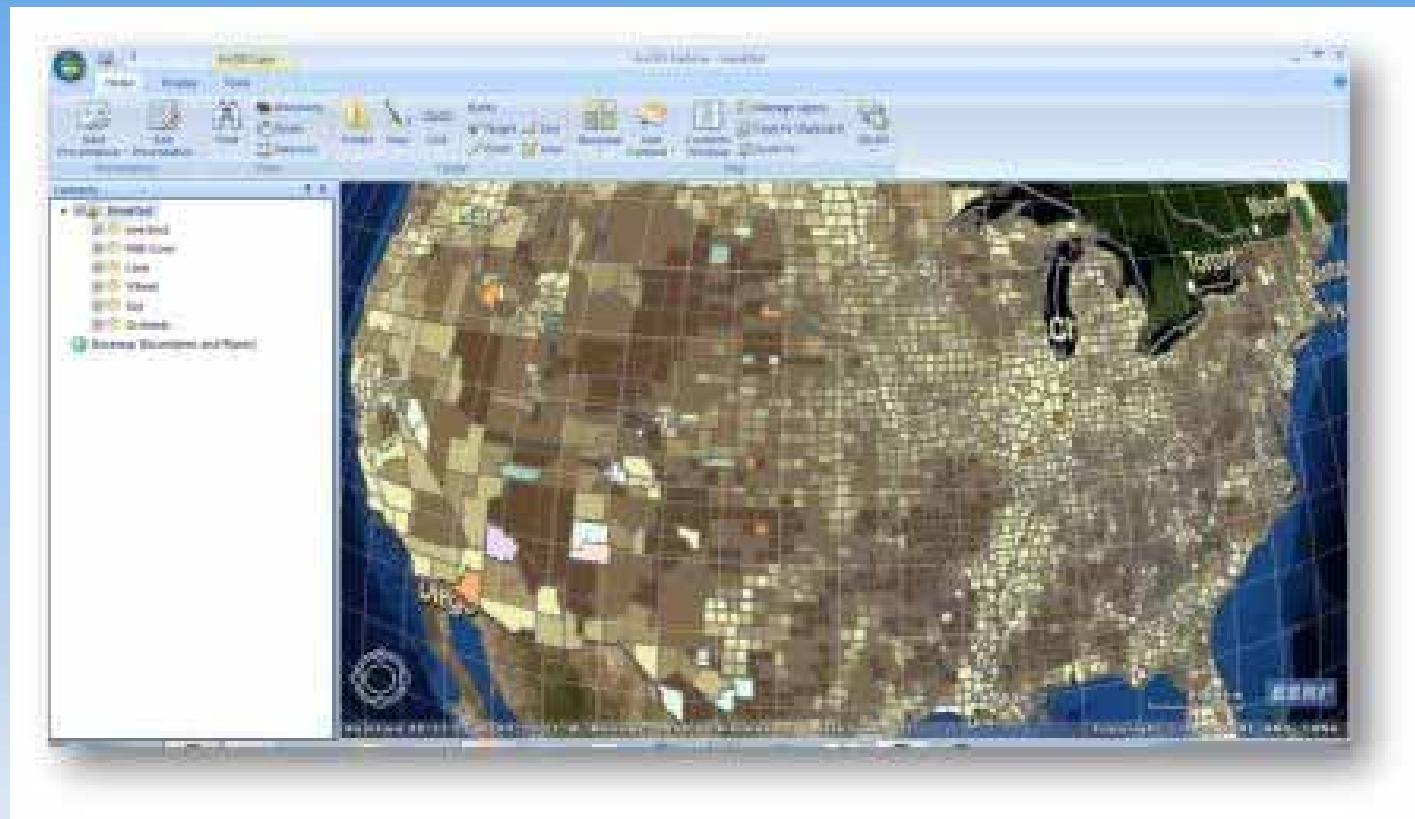
We the People: Does your vote count?



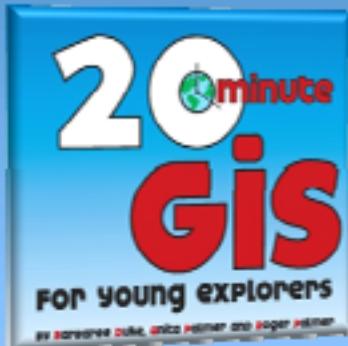
Pirate's Treasure: there's no place like home



Where Did Your Breakfast Come from?



Want to know more?



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