

Roots & Shoots

Let's Talk About Conservation!

Summary

1. **Subject(s):** Conservation, Climate Change, Environment, Jane Goodall, Community Mapping
2. **Topic or Unit of Study:** Science/Environmental Studies
3. **Grade/Level:** 4th
4. **Objective:** To engage students in global issues, and give them the knowledge to take action within their local communities.
5. **Time Allotment:** 45 minutes

Implementation

Learning Context

Focus on **Reduce, Reuse, Recycle**, and introduce **RETHINK! And explain why it is important (ties into concepts below)**

Perhaps bounce off of what they are learning in science class. Start with chain reactions (understanding that everything is connected).

If time permits, discuss basic climate change concepts (atmosphere and carbon emissions) and what is environmental conservation.

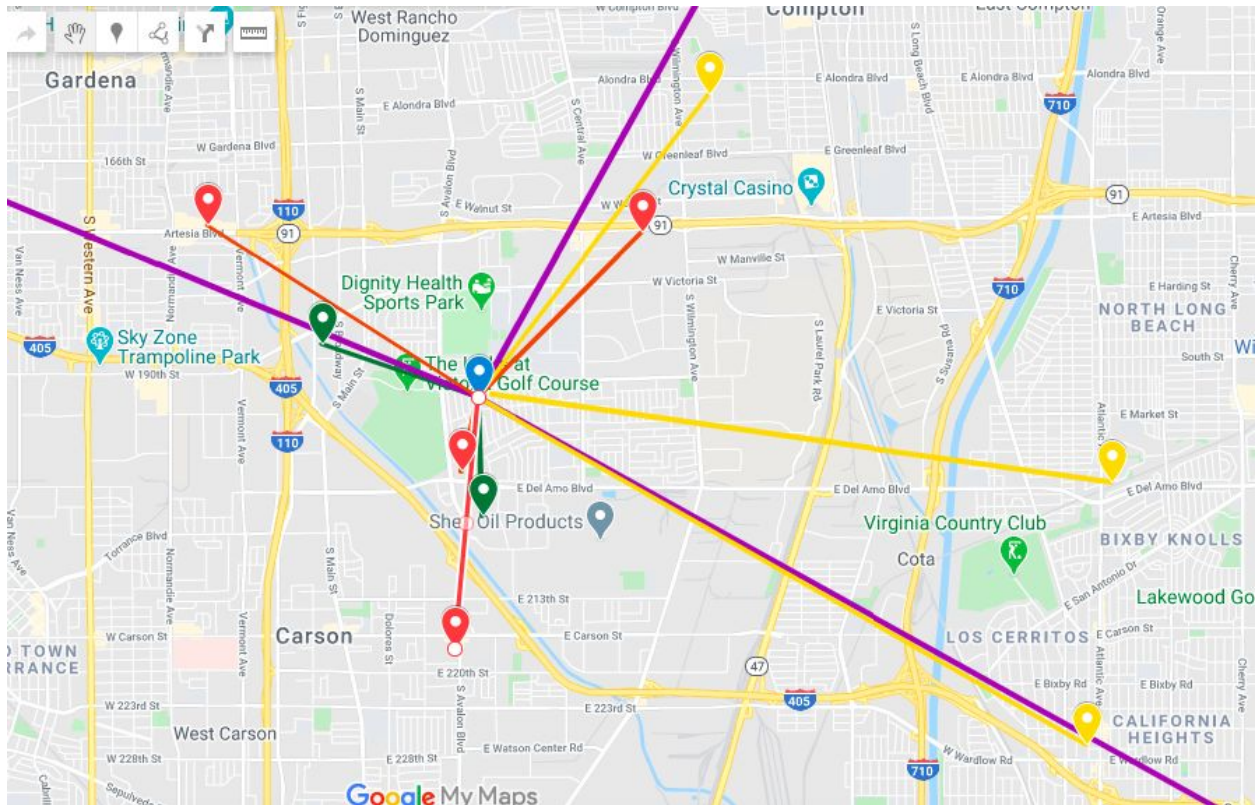
Procedure

- a. Anticipatory Set
 - Discuss Jane Goodall and her chimps
 - Like Jane our goal is to “think global, act local”
- b. Direct Instruction
 - a. Brainstorm ideas with the students about how they can seek change in their communities to better the global environment.
 - i. Reduce
 - ii. Reusable bags/bottles

- iii. Recycling
- b. Ways to rethink our food in cooking class (working through a recipe)
 - i. World map activity
 - ii. Energy expenditure
 - 1. Climate, seasonality
 - iii. Eating local
 - 1. Understanding where our food comes from, the role of a farmer
- c. Guided Practice
 - a. Mapping Local and Global Food System
 - i. **Starting Point: Our School's Garden** 19302 Leapwood Ave, Carson, CA
 - ii. Local Farmers Markets
 - iii. Grocery Stores
 - iv. Global Food Production (Guatemala, Indonesia, Ethiopia)
 - b. **Food System Map and Food Miles**
 - 1. **Carson Farmer's Market**
 - a. 1.17 miles
 - 2. **South Bay Paivillion Farmers Market**
 - a. .84 miles
 - 3. **WalMart Neighborhood Market**
 - a. .5 miles
 - 4. **Ralph's Grocery** (Raspberries, blueberries, blackberries, and strawberries)
 - a. 1.78 miles
 - 5. **Food for Less Grocery**
 - a. 1.64 miles
 - 6. **The Growing Experience Urban Farm Stand**
 - a. 4.4 miles
 - 7. **Moonwater Farm**
 - a. 2.69 miles
 - 8. **Long Beach Farms**
 - a. 4.94 miles
 - 9. **Guatemala (bananas)**
 - a. 2,120 miles
 - 10. **Indonesia (palm oil)**
 - a. 8,378 miles
 - 11. **Ethiopia (coffee)**
 - a. 9,165 miles

MAP LINK:

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Blue pin: Leapwood School Garden

Green Pins: Farmers Markets

Red Pins: Grocery Stores

Yellow Pins: Local Farms

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Blue Pin: Leapwood School Garden

Purple Lines: Distances to Guatemala, Indonesia, and Ethiopia



d. Check for Understanding

Ask questions

- Has this changed the way you think about food?
- What are other ways we can continue to conserve at home?

e. Closing

No person is too small to make a difference in the world. :-)

