

Farm to Fork

Week 12

Unit 3: Our Carbon Footprint

Resource Management and Conservation Practices

This week...

- Prepare for Next week Harvest Festival: Fundraiser & Information Booth
- Prepare for School Board Members visits: Sarah Kirby Gonzalez & Katie Villegas & Renee Collins
 - Officers meet in the front Office for welcoming our guest. Ariana: Tuesday
 - Escort out to the garden at 10:30.
- I sent all Thank you Cards.
- Master Gardener visit??? Talk out at the Garden?
- Grade Notebooks Monday and Thursday – Computer Lab Library Monday, Room 801
Thursday

11/2 Conservation Practices

Obj. TSW understand and explain conservation practices such as water conservation and pest management to members of the school board this week. P. 26 NB



1. Companion planting is a conservation practice, how does it work?
2. We used mulch in each of our garden beds over the summer, why?
3. What practice do we have for soil conservation?

Activity: List Our Best Practices

Brainstorm conservation techniques we have in
the garden that make it sustainable. P. 27 NB

- Remember to show Board Members how we are being efficient with water.

Contact local Farmers to show us their fields and their conservation practices.

- Would you like to walk along the Clarksburg Trail and meet a farmer in their field?

Computer Lab Activity: Biocapacity of Countries P. 29 NB

- Use the Website: www.footprintnetwork.org
- Research Biocapacity of 5 – 7 Countries. Record the trends and Biocapacity for each country.

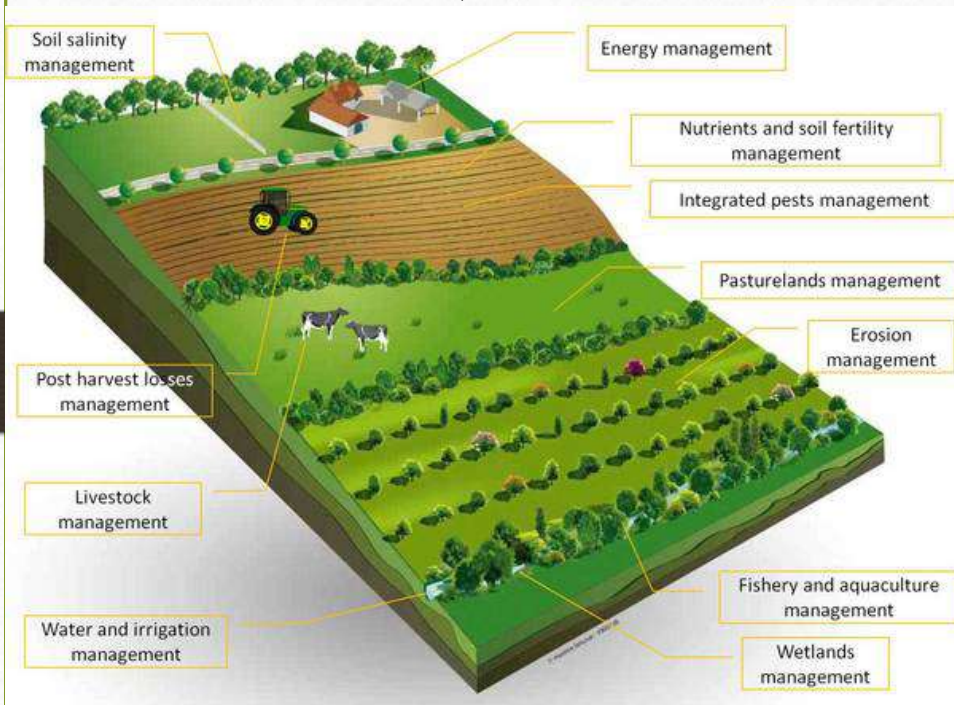
Answer the following questions:

- What trends do you see?
- What are these trends related to?
- What are the implications of these trends?
- What needs to happen to increase our Biocapacity for the world?

Finally, write a paragraph to justify the need for sustainable management of resources and practices across countries.

11/3 Conservation Practices

Obj. TSW learn about conservation practices. P. 28 NB



1. How do these practices (to the left) improve soil productivity or water retention?
2. Why do we want to conserve soil/water?
3. What are some of the threats to soil water?

No till farming



Conservation Practices we use in the garden.

P. 23 NB

- Suggest ways to improve our effectiveness in the garden and describe some conservation techniques to include.
 - Crop Rotation – Make a map of each season, so we don't plant in the same beds with the same crops. This helps keep pest #'s down.

Projects to work on in the garden

- **Be productive**
 - Pull weeds, in the garden beds, in the garden area
 - Plant Onion bulb sets in center planter, remember the name tag
 - Turn compost
 - Stop by G Building and get donations
- from Mrs. Hoffmann
- Move sand for Zen garden
 - Move soil to compost pile
 - Rake ground flat
 - Trim Roses
 - Organize the Greenhouse

11/4 Ideas for Harvest Festival

Obj. TSW discuss ideas for the Harvest Festival to educate the community about what we do, what Farm to Fork is and sustainable agriculture. P. 30 NB

- The SSP Grant \$\$\$ was approved!!!!



Harvest Festival

1. What activities/ games can we do/ make to help educate others at the Harvest Festival about Farm to Fork?
2. What sort of fundraising ideas do you have?
3. What materials do we need to tell Mrs. Collins at Bryte to have set up for us for the Harvest Festival?



Harvest Festival

- Educate – Games/ Activities/ Pamphlets

- Jonah Hernandez
- Quincy Gonzalez
- Valeria Velarde
- Emiliano Rosas
- Paige Williams

- Fundraise – \$ into Greenhouse & Environmental Club Account

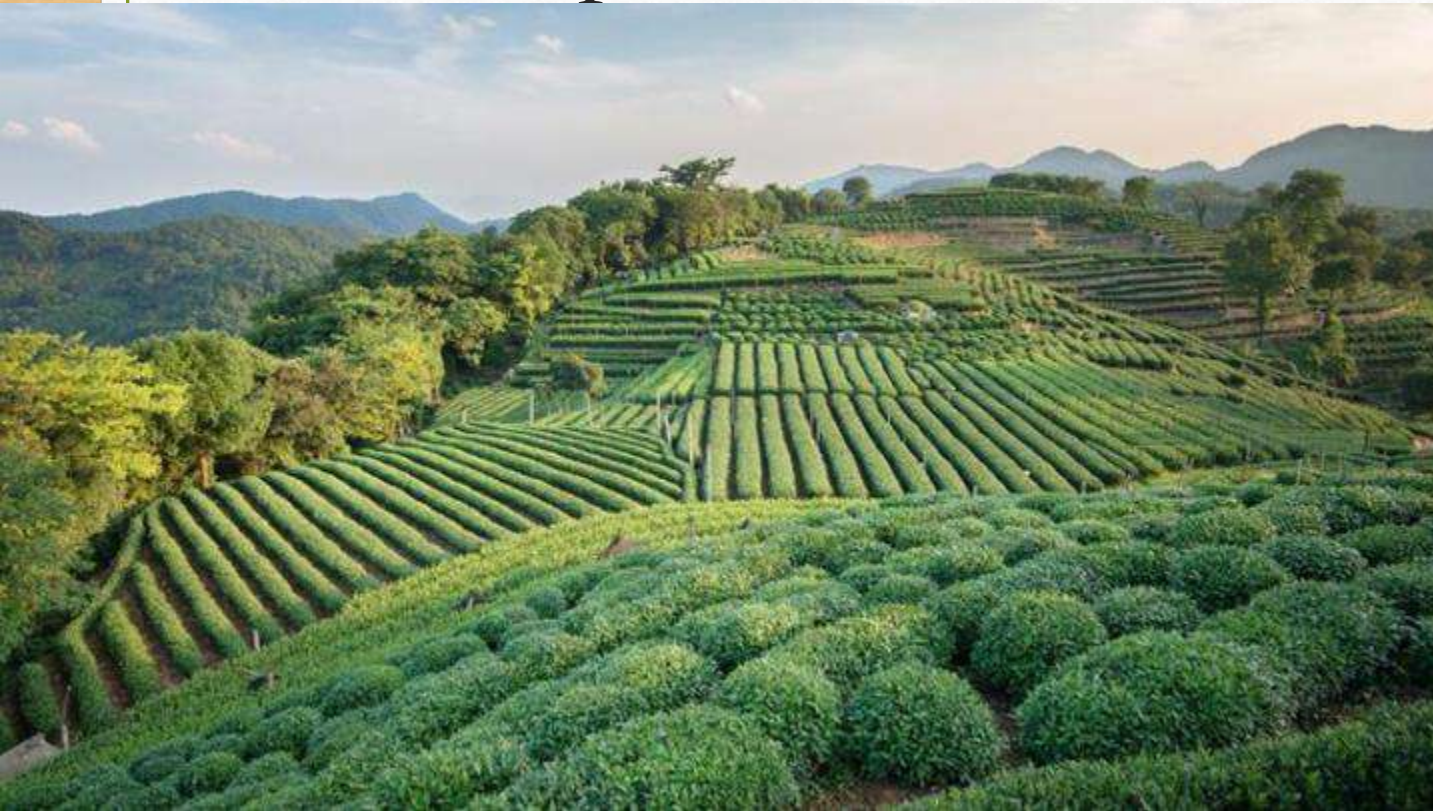
- Fernando Vega
- Ariana Cavett
- Nathalie Jaime
- Daisy Lopez Velasco
- Julien Walker
- Sonya Shifrin

Vocabulary Sheet
UNIT 3: Key Assignment 2:
Conservation Practices P. 31 NB



11/5 Green Revolution

Obj. TSW watch a video about synthetic pesticides and fertilizers. P. 32 NB



1. What is the Green Revolution?
2. What is the difference between synthetic and organic?
3. What suggestions do you have for our garden?

Thank you cards!!!

- For Buying our Home Grown Farm to Fork Pumpkins from our RCHS Garden
 - Debra Rodriguez
 - Monika Frank
 - Kristin Rodriguez
 - Chris Hanks
 - * Can we have them signed and delivered by Friday November 6th? We raised \$55 on only 4 pumpkins!!! What could we raise next year if we had even more?

11/6 Conservation Practices

Obj. TSW understand how cover crop, intercropping and integrated pest management help conserve our soil. P. 34 NB



1. What is a Cover Crop?
2. What is Intercropping?
3. Name some integrated pest management practices.

Cover Crop growing a second crop in the same season of another that will improve soil health.

- Suppressing weeds
- Protecting soil from rain or runoff
- Improving soil aggregate stability
- Reducing surface crusting
- Adding active organic matter to soil
- Breaking hardpan
- Fixing nitrogen –clover, fava beans

- Scavenging soil nitrogen
- Suppressing soil diseases and pests

<http://covercrops.cals.cornell.edu/>



Innercropping – growing two or more crops at the same time in the same field.

- Reduces insect/ pest infestations
- Reduces plant diseases
- Reduces erosion & Protects topsoil
- Attracts beneficial insects
- Minimize labor to control weeds
- Increase in production of land
- 2 crops harvested instead of one



http://www.oisat.org/control_methods/cultural__practices/intercropping.html

Integrated Pest management

- Lady bugs
- Butterfly's
- Less pesticides
- Increased biodiversity

