

Echo Field Trip Curricular Links

Lowlands

Ducks/Tilapia

- Economics/Business
 - Monoculture vs. diversity in farm products
 - How would these models affect the small scale farmer? Monoculture brings higher risk for failure and starvation.
 - Fertilizer source/income source
- Biology -Food Chains

Pigs/Deep Litter System

- Microbiology –effective microbes
- Economics/Business
 - Monoculture vs. diversity in farm products
 - Fertilizer source/income source

Vermiculture

- Business/Biology
 - Fertilizer source /income source
 - Monoculture vs. diversity in farm products

Rice – SRI

- Experimental Design – hypothesis, variables, control

Bamboo Field Hut

- Engineering/Physics –tensile strength

Drip Irrigation

- Water cycle -Controlling Evaporation

Mountain

- Geology – Erosion
- Biology
 - Legumes
 - Intercropping
 - Multipurpose plantings –erosion control/animal fodder

Goats

Zero Graze Unit

- Biology
 - Animal care
 - Protects animal – parasites, hoof rot, quality forage, fresh water
- Economics/Business
 - Protects farm environment
 - Cost Effective use of building materials vs. fencing
 - Animal products for income; fertilizer source
 - Microloans -Whole Foods Markets: Kiran's Story
 - Monoculture vs. diversity in farm products

<https://www.wholeplanetfoundation.org/get-involved/annual-prosperity-campaign/>

Neem

- Village Pharmacy - Natural Medicines

Monsoon Farm

Elevated Water Storage

- Physics
 - Kinetic/Potential Energy
 - Gravity –water pressure

Kiran's Story

Your support helps us reach more women like Kiran in India, who used her loan capital from microfinance partner STEP to invest in two goats and one cow. With the investment in additional animals, she is able to increase her profits from the sales of their milk.

House

- Geology – soil
- Math – (clay, sand, cement) ratio

Chickens

- Economics/Business
 - Monoculture vs. diversity in farm products
 - Fertilizer source/income source

Community Garden

[Intern Resource Consultant](#) – help plan and give technical support for garden for schools, churches, community organizations

Rainforest

- Biology/Microbiology
 - Biodiversity
 - Mulch, don't burn
 - Biochar –used to retain nutrients

Urban Garden

Containers

- Recycling/repurposing

Wick Gardens

- Physics/Biology

Bio-intensive Ag

- Biology

Rabbits

- Economics/Business/Biology –manure fertilizer, marketable income products
- Genetics –clean blood lines

