



**SOL-BASED ENVIRONMENTAL EDUCATION PROGRAMS
FOR 7th GRADE - LIFE SCIENCE
PETER FRANCISCO SOIL & WATER CONSERVATION DISTRICT**
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- **The Hidden Life of Soils** (LS.1, LS.7)
A soil community biorama is displayed. Organisms within the soil will be discussed, classified and their relationships in the food web explained. Then the students will divide into groups of 4 and play a go-fish style card game which will familiarize them with the different families of life under the soil. The object of the game is to complete a family (plant, soil, microfauna and microorganism, mesofauna, macrofauna, megafauna and scientific).
- **Macroinvertebrates** (LS.1, LS.8)
Leaf bags can be used to collect specimens and observation can be done in the classroom or program can be conducted off-campus. If using leaf bags, we need at least one month in order to collect specimens. Students will investigate organism classification, adaptations that enable organisms to survive within a specific ecosystem, factors that increase or decrease their population and how their presence or absence indicates a healthy or unhealthy ecosystem.
- **Water Quality and Testing** (LS.1, LS.8)
This is an introduction to water quality parameters including the units of measure, range and regulatory standards for turbidity, temperature, pH, alkalinity, dissolved oxygen, nitrogen, phosphorus and bacteria. This lab provides experience in using water monitoring equipment.