

## Soil - "Sponge" Model



Mineral Particles - "glued together" into aggregates. Fungi produce glomalin (glue-like substance) that binds the particles

Pores in soil are like the holes in a sponge - allow water, air, and root movement in soils

## Helpful Resources:

Walter Jehne, Australian Soil Microbiologist
Part of a lecture on YouTube - WGBH Forum Network
The Soil "Sponge"
https://youtu.be/qo3vyminy6E

## Lessons and Activities - Soils

Soils 4 Teachers
https://www.soils4teachers.org/lessons-and-activities/


## Review:

## Soil Orders in South Texas

Alfisols (AI \& Fe) - clay enriched subsoil
Entisols (Recent) - unaltered parent material, no diagnostic horizons
Inceptisols (Latin: Inceptum, beginning) - some alteration of parent material
Mollisols (Latin: Mollis, soft) - "prairie soils", dark
Vertisols (Latin: Verto, turn) - clayey, shrink/swell



| Soil Orders |  |
| :---: | :---: |
|  | Alfisols |
|  | Entisols |
|  | Inceptisols |
|  | Mollisols |
|  | Vertisols |
| $\square$ Gullies/Eroded |  |
| 愲 Urban/Industry |  |
| $\square$ Water |  |
|  | Site Boundary |

Based on USDA-NRCS, SSURGO database for Nueces Co., published 11 June 2020

## Distribution of Mollisols



Based on USDA-NRCS, SSURGO
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