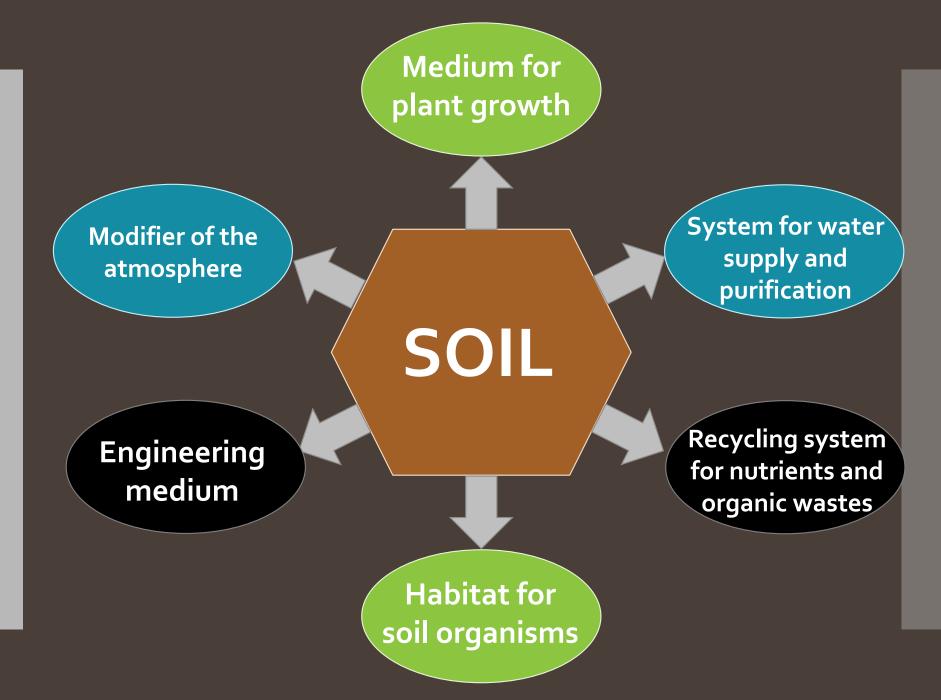
Intro to Soils

The Basics

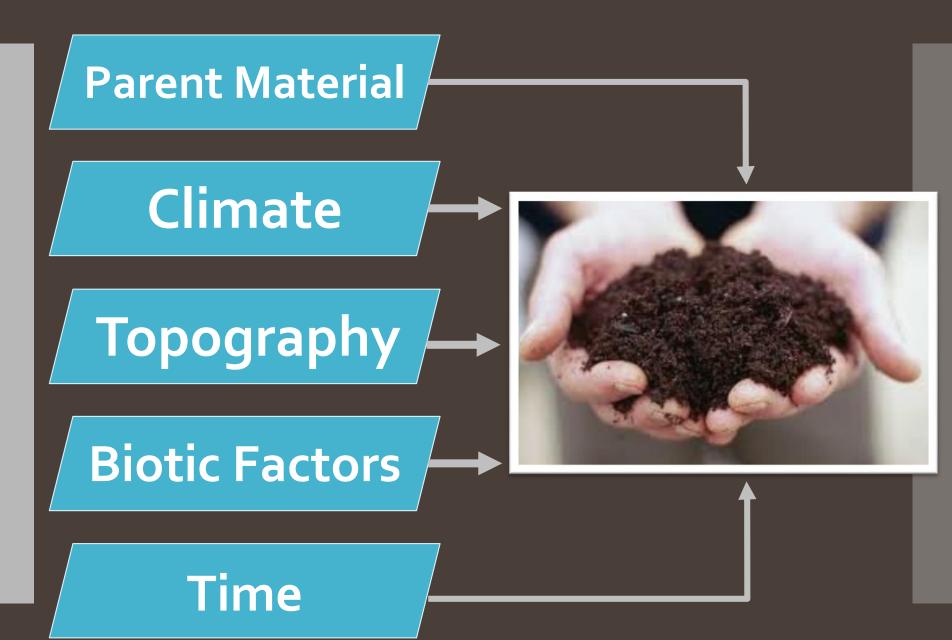


The 6 Functions of Soils





The 5 Soil Forming Factors





Soil Classification and Taxonomy





Soil Series



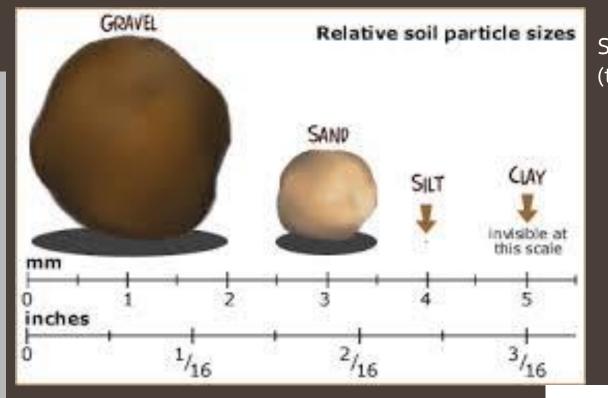
Indiana's State Soil is called "Miami"

This is a soil profile.

It shows you what the Miami soil looks like if you dug a hole and could see all the horizons, or levels, of the soil.



Soil Physical Properties



Soil Texture (the % of sand, silt, and clay)

Soil physical properties are important because they influence how water and air move through the soil and become available for plants

Space between soil particles is much greater the larger the particle

Sand size Silt size Clay (so small you cant see any space)

www.yourgardensanctuary.com



Soil Water



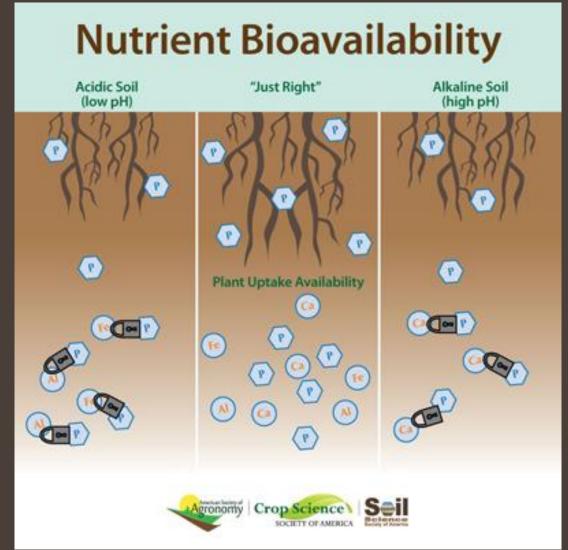
Where do plants get their water!?





The best indicator for soil chemistry is pH!

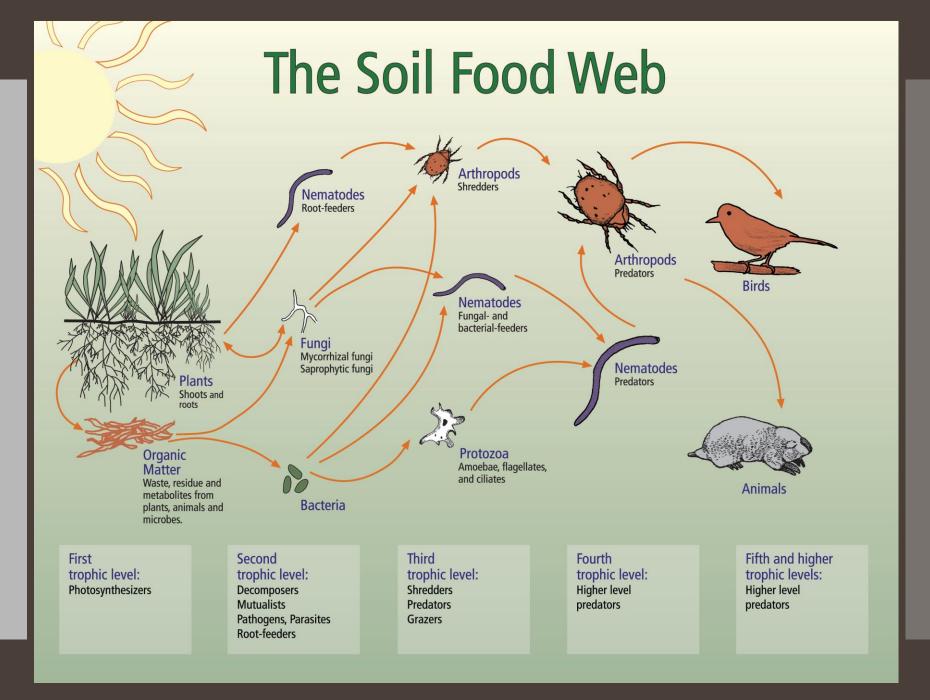
Soil Chemistry



If the pH is
"just right"
nutrients that
plants need are
plentiful



Soil Biology





Macronutrients

Found in the soil, needed by plants

Soil Nutrients



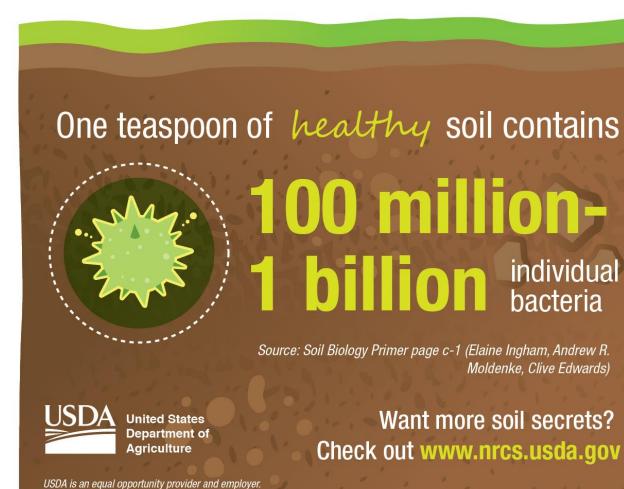






what's underneath

Soil Health





Explore these links and the "notes" section below each slide for background information

Learn More!



Supporting Information, Resources, and Classroom Activities

USDA-NRCS Soil Health Resources:

https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/soils/health/?cid=s telprdb1048859

Soil Basics from the Soil Science Society of America:

https://www.soils.org/discover-soils/soil-basics

K-12 Soil Science Teacher Resources:

https://www.soils4teachers.org/soil-basics

USDA-NRCS Soil Education Resources:

https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/edu/

Soil Health Institute Resources:

https://soilhealthinstitute.org/resources/soil-health-educational-resources/



Elkhart County Soil and Water Conservation District

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Still want to know more?

Contact us!

