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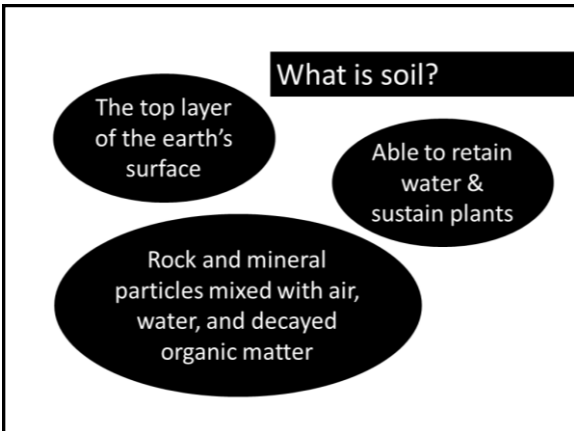
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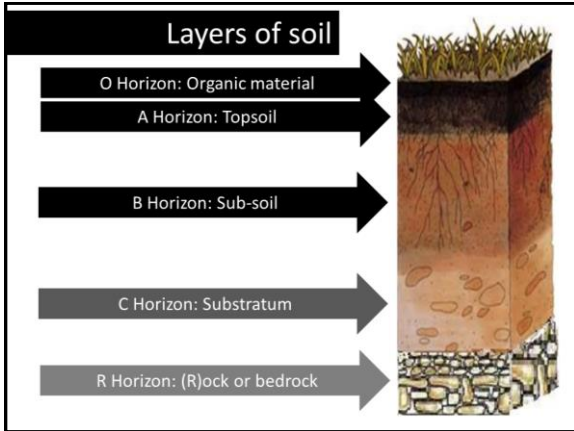
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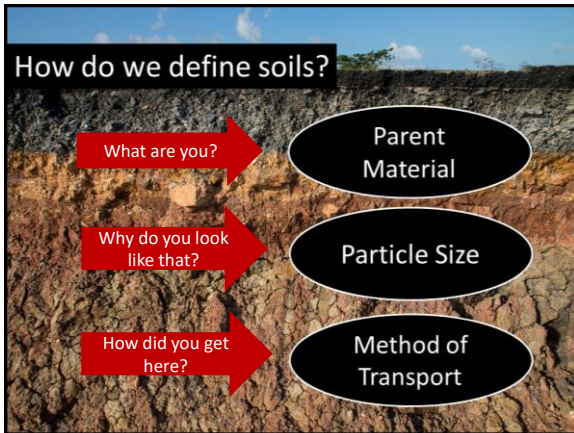
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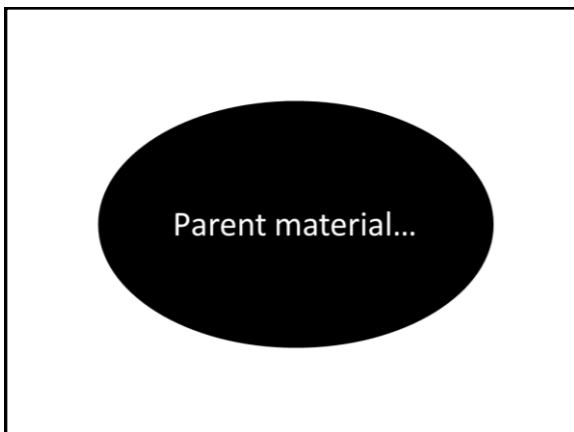
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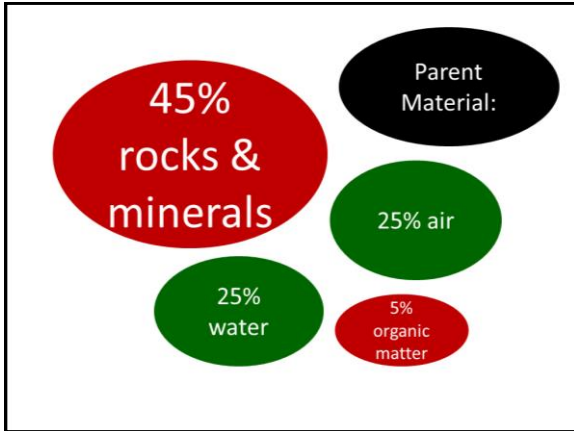
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**Minerals**

Like all matter, minerals are composed of elements.

THE PERIODIC TABLE OF THE ELEMENTS

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**Minerals**

The "building blocks" for rocks.

- Inorganic
- Natural
- Specific chemical structure
- Crystalline structure

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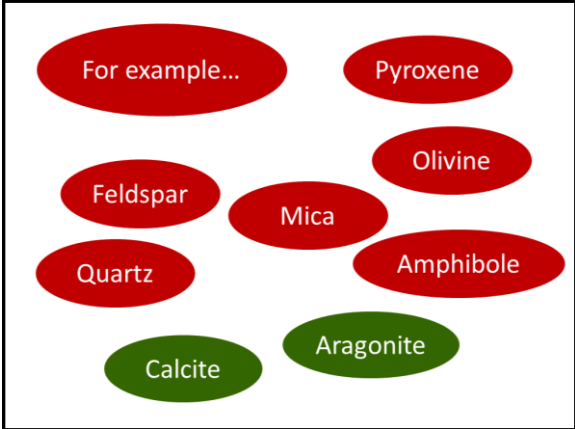
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Rocks

Composed of minerals

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Rocks

Composed of minerals

- Naturally occurring
- Do not have a specific or common structure
- Differentiated by mineral composition and texture

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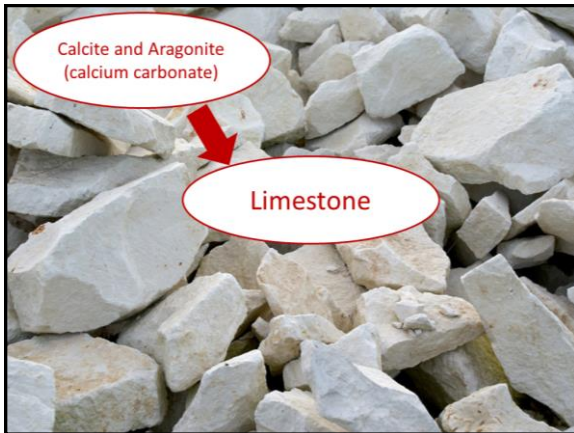
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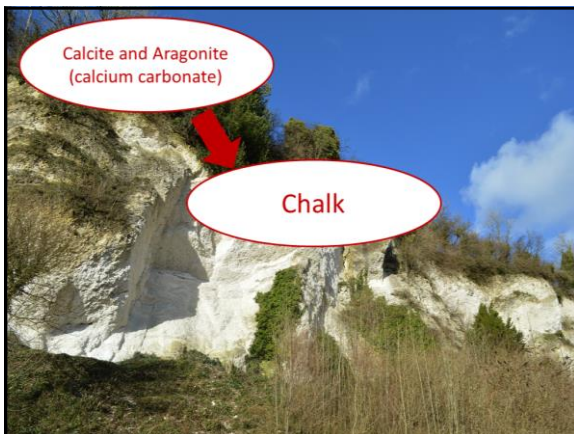
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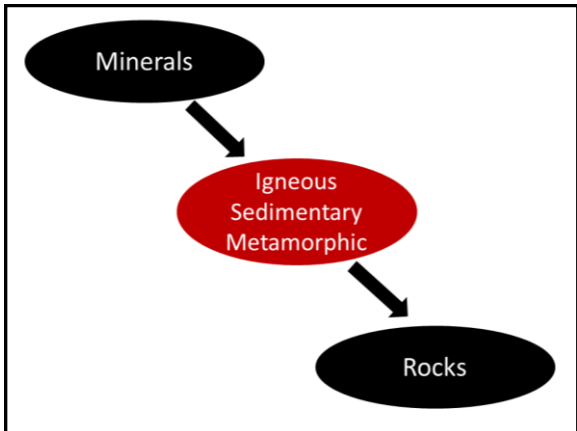
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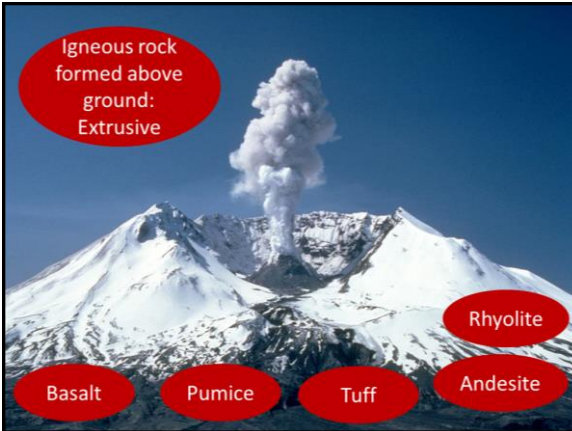
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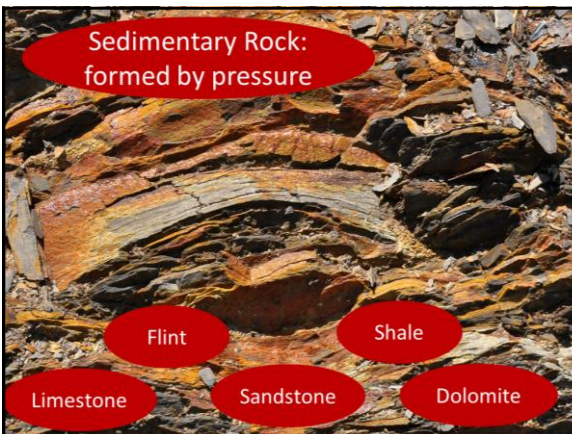
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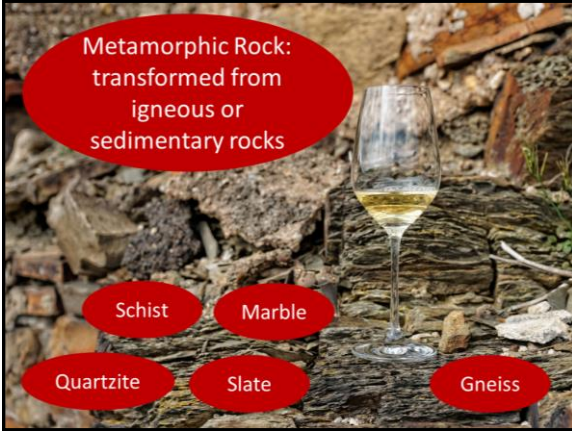
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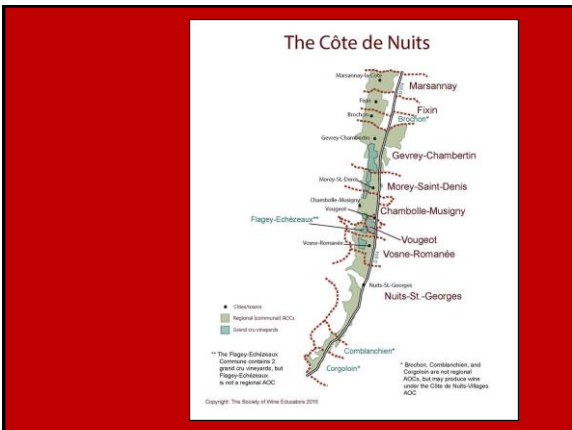
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Carrara marble quarry

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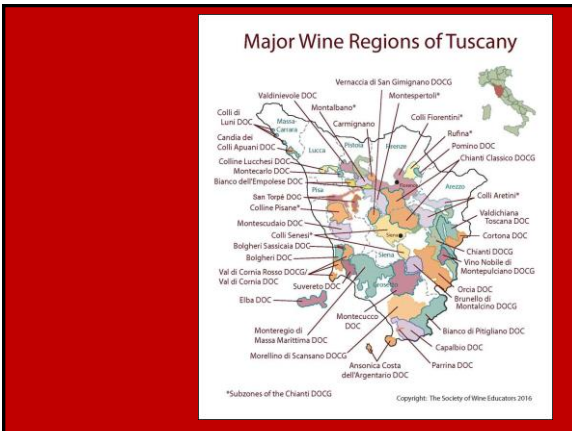
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Major Wine Regions of Tuscany

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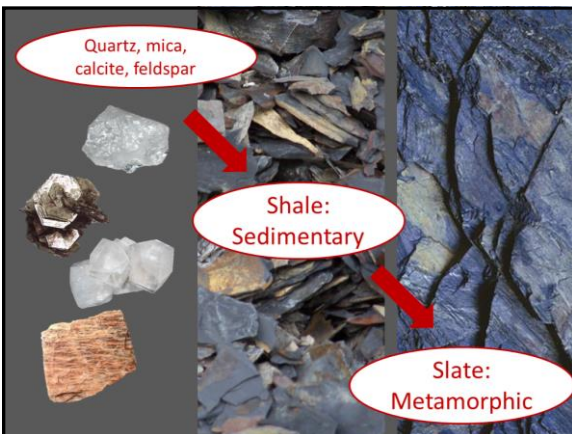
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Quartz, mica, calcite, feldspar

Shale:  
Sedimentary

Slate:  
Metamorphic

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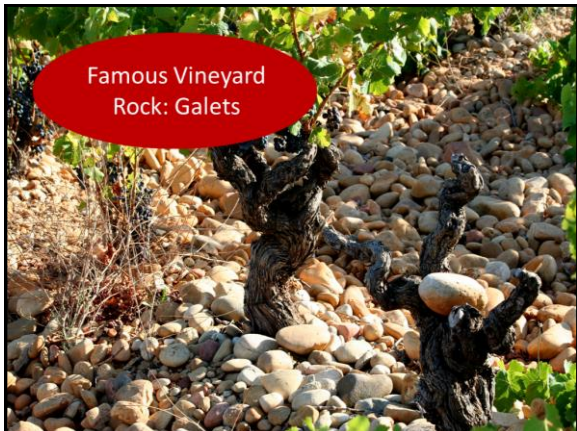
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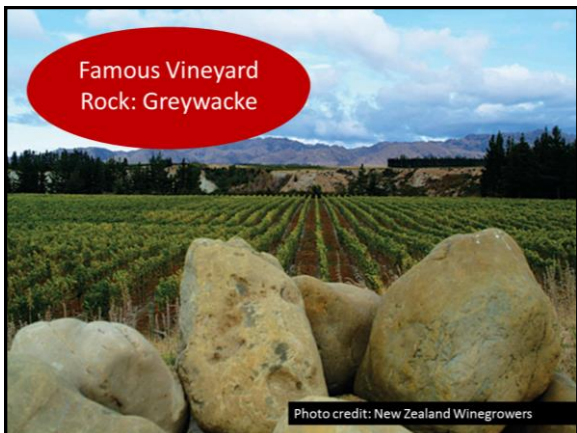
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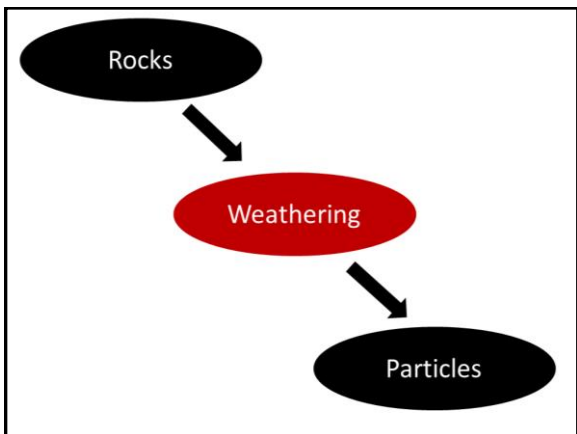
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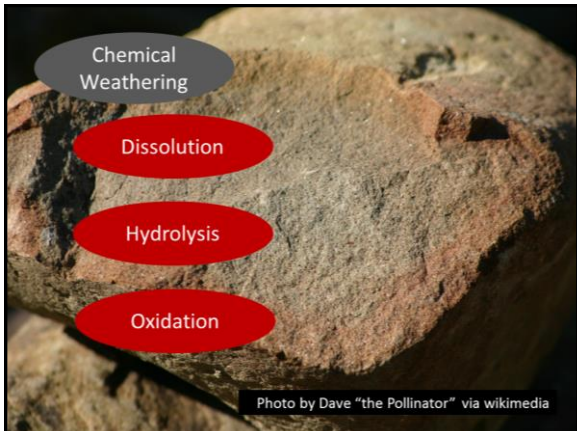
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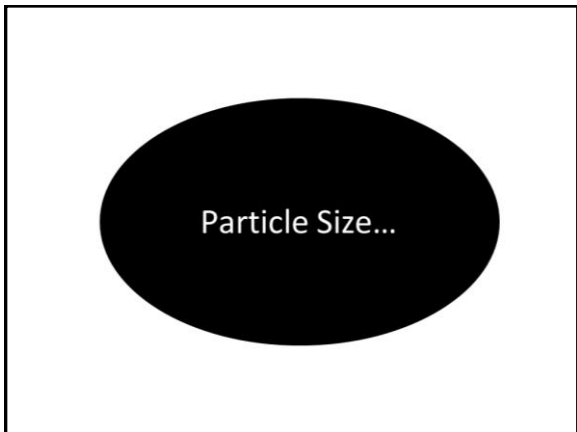
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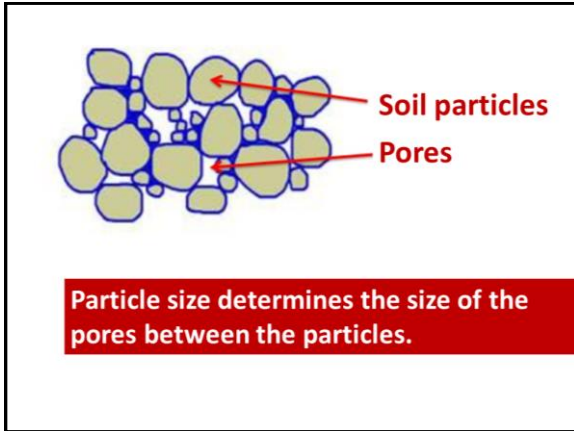
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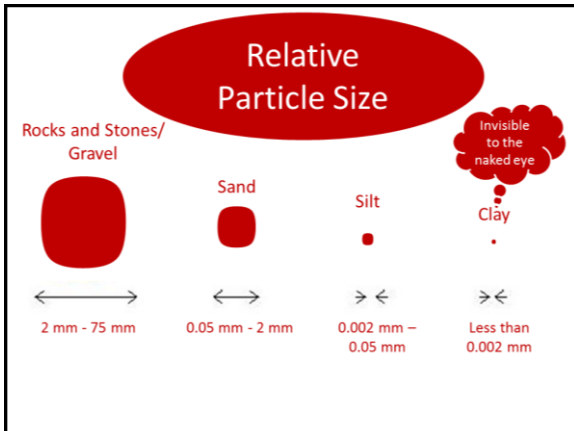
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**Sand**

Particles  
0.05 - 2 mm

Round or  
angular in  
shape

**Retains very little water; drains quickly**

**Not particularly fertile for plants or animals**

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**Silt**

Particles  
0.002 - 0.05 mm

**Retains more water & nutrients than sand  
(but less than clay)**

**Tends to be slippery or muddy (rather than  
grainy) when wet**

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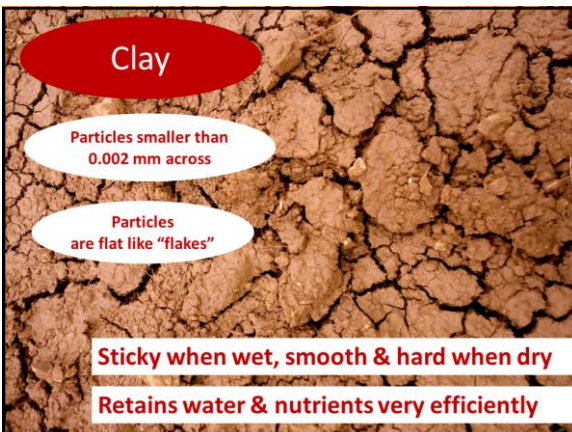
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**Clay**

Particles smaller than  
0.002 mm across

Particles  
are flat like "flakes"

**Sticky when wet, smooth & hard when dry**

**Retains water & nutrients very efficiently**

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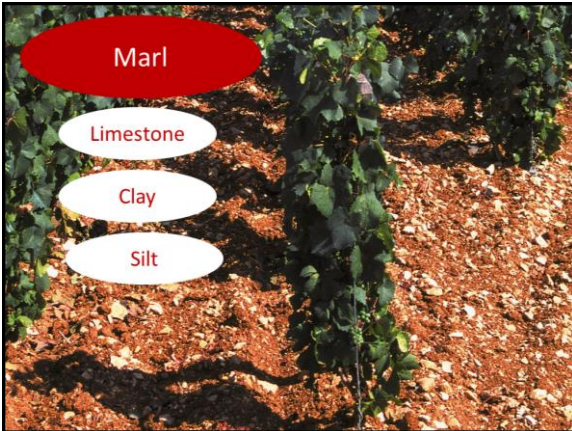
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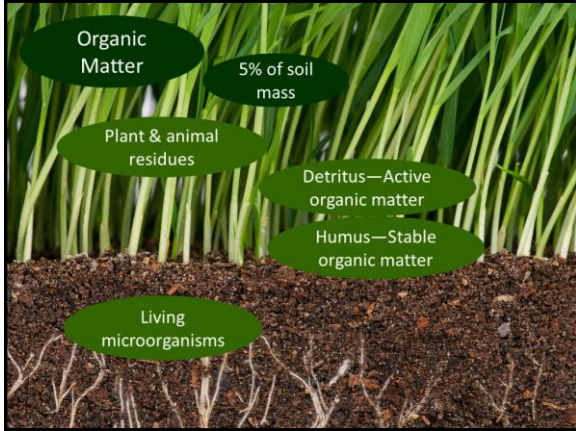
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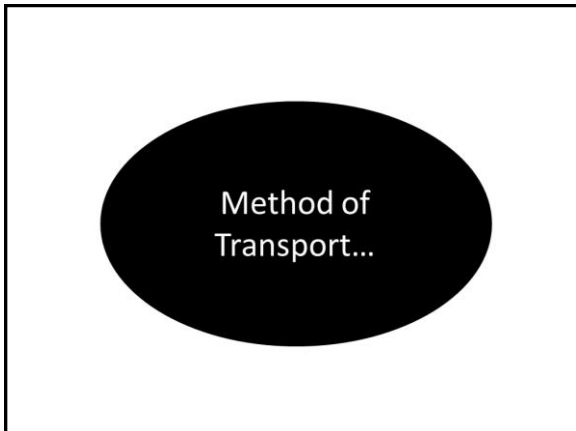
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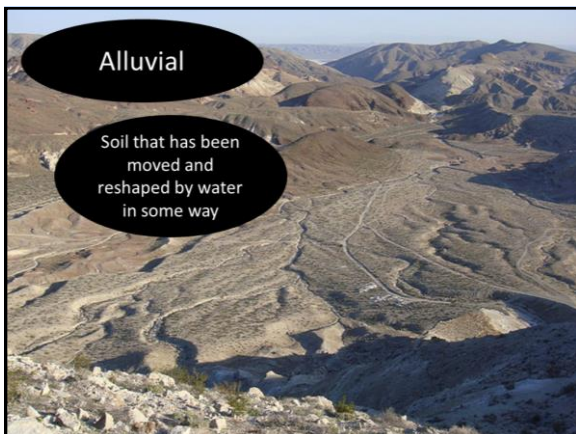
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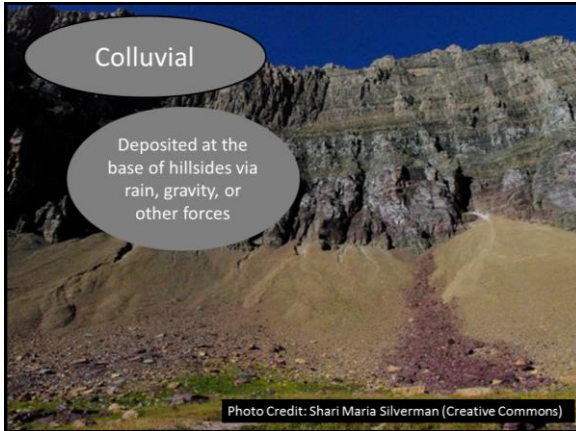
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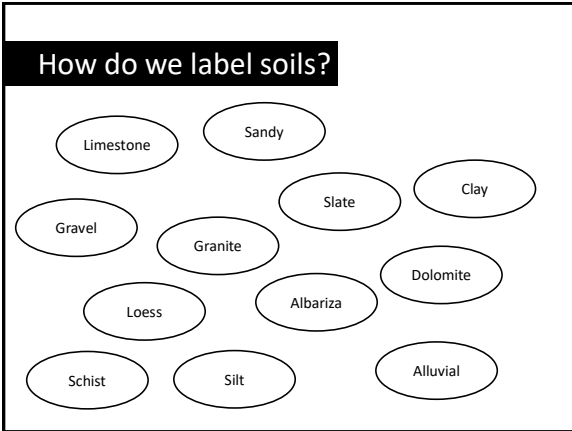
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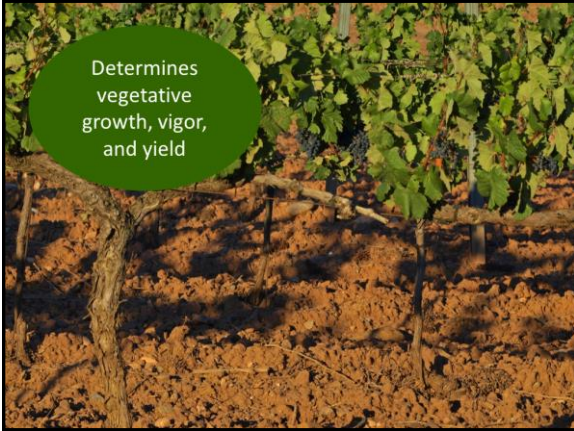
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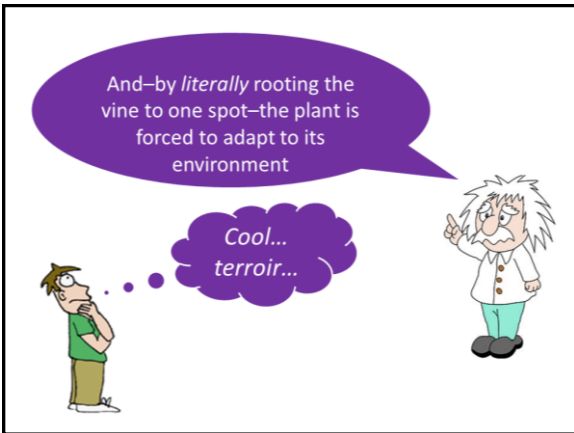
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*The Dish on Dirt*  
with Jane A. Nickles, CSE, CWE

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jnickles@societyofwineeducators.org

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