

Geology 100

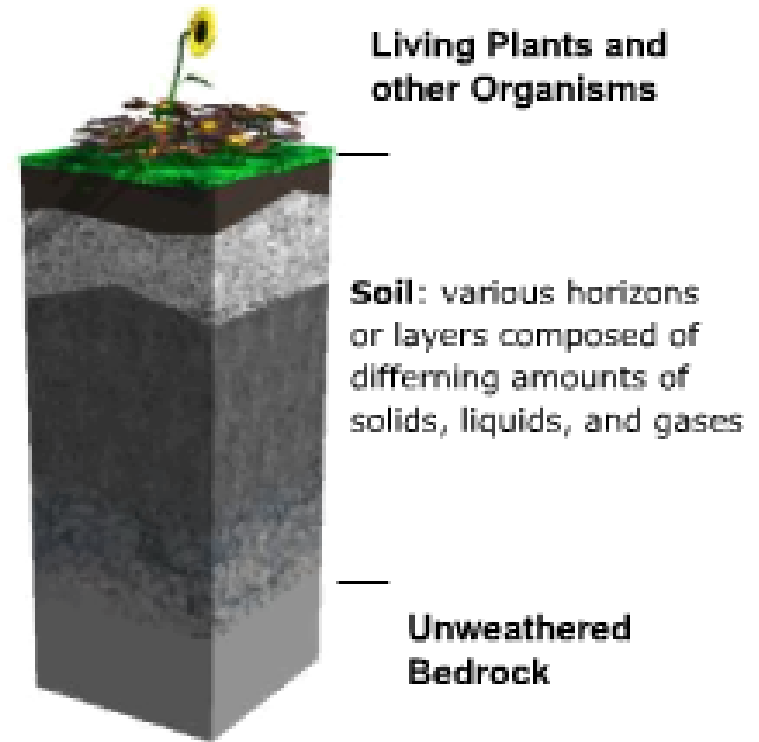
Notes on Planet Earth version 3.0

Review - Exam 2

Chapter 5

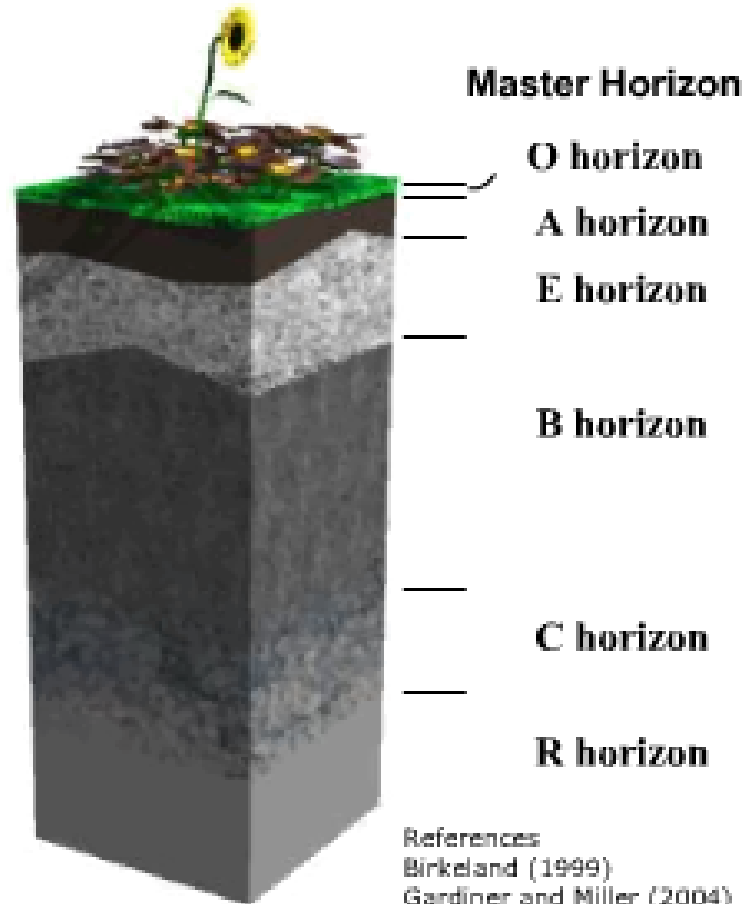
Chapter 5 - Soils

A soil is a natural body consisting of layers of mineral and/or organic constituents of variable thicknesses, which differ from their parent materials in their morphological, physical, chemical, and mineralogical properties, and their biologic characteristics (Birkeland, 1999).

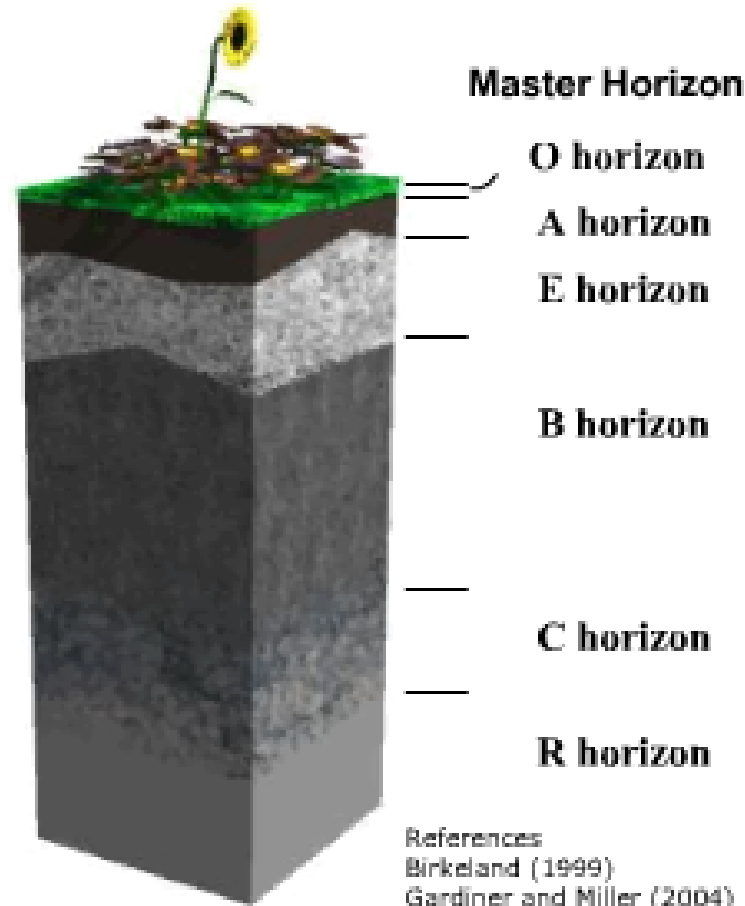


Eluviation versus illuviation

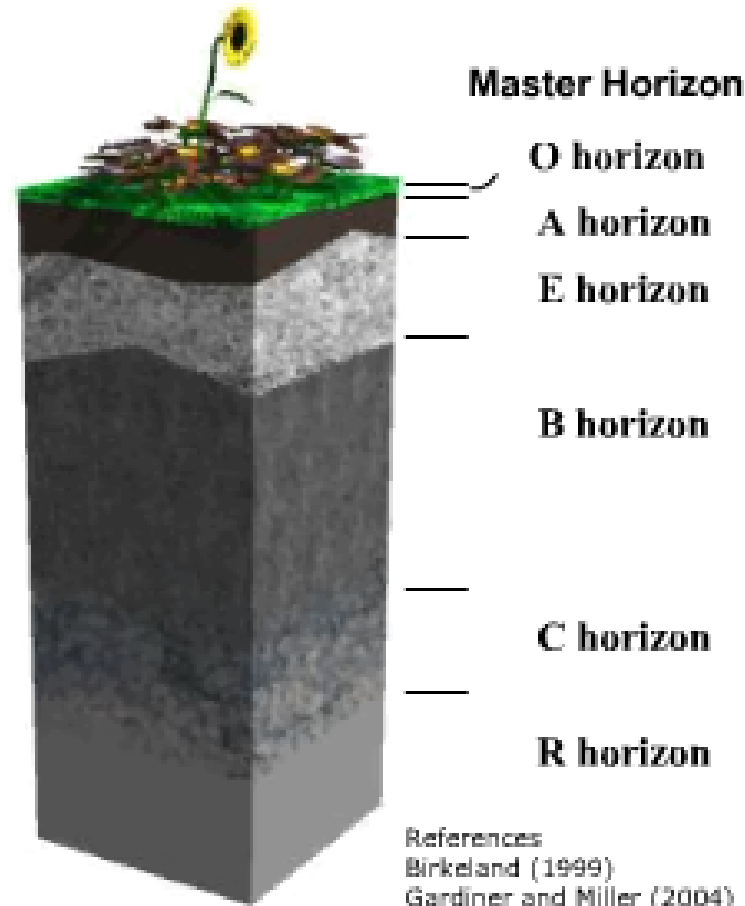
O versus A



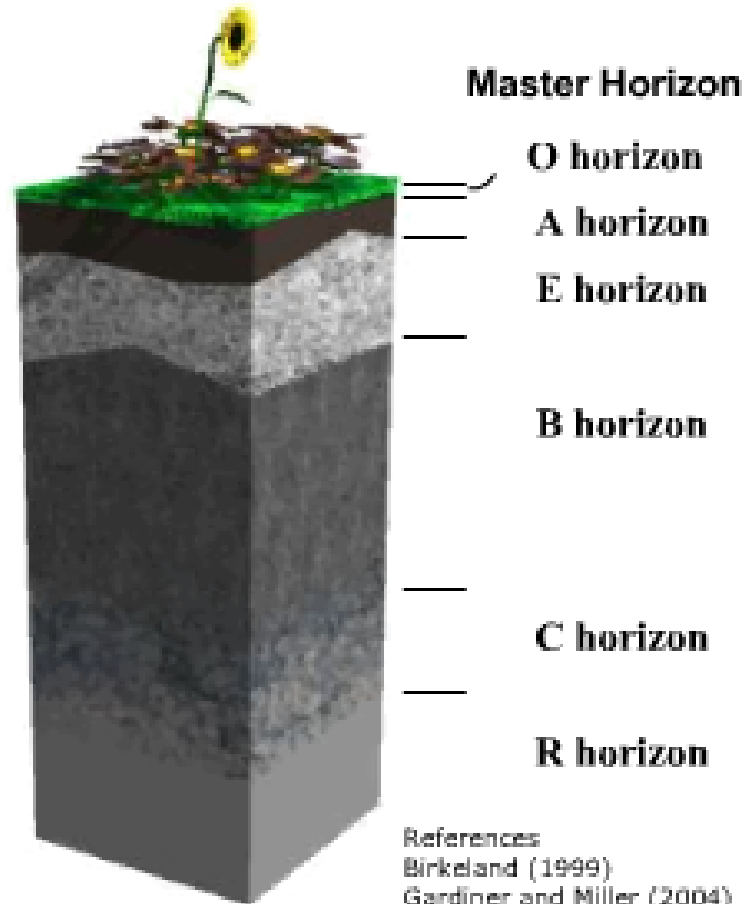
How would you characterize the E master horizon



What important process occurs within the B master horizon?



How do the C and R master horizons differ?



Can you explain the role that each of these 3 factors plays in soil development?

- Climate
- Topographic Relief
- Composition

Can you explain the role that each of these 2 factors plays in soil development?

- Organic activity
- Time

The 12 soil Orders

- Entisols
- Inceptisols
- Alfisols
- Spodosols
- Ultisols
- Oxisols

The 12 soil Orders

- Gelisols
- Aridisols
- Histosols
- Vertisols
- Andisols
- Mollisols