

Weathering, Soils, and Ice Ages Unit

Name:

Due:

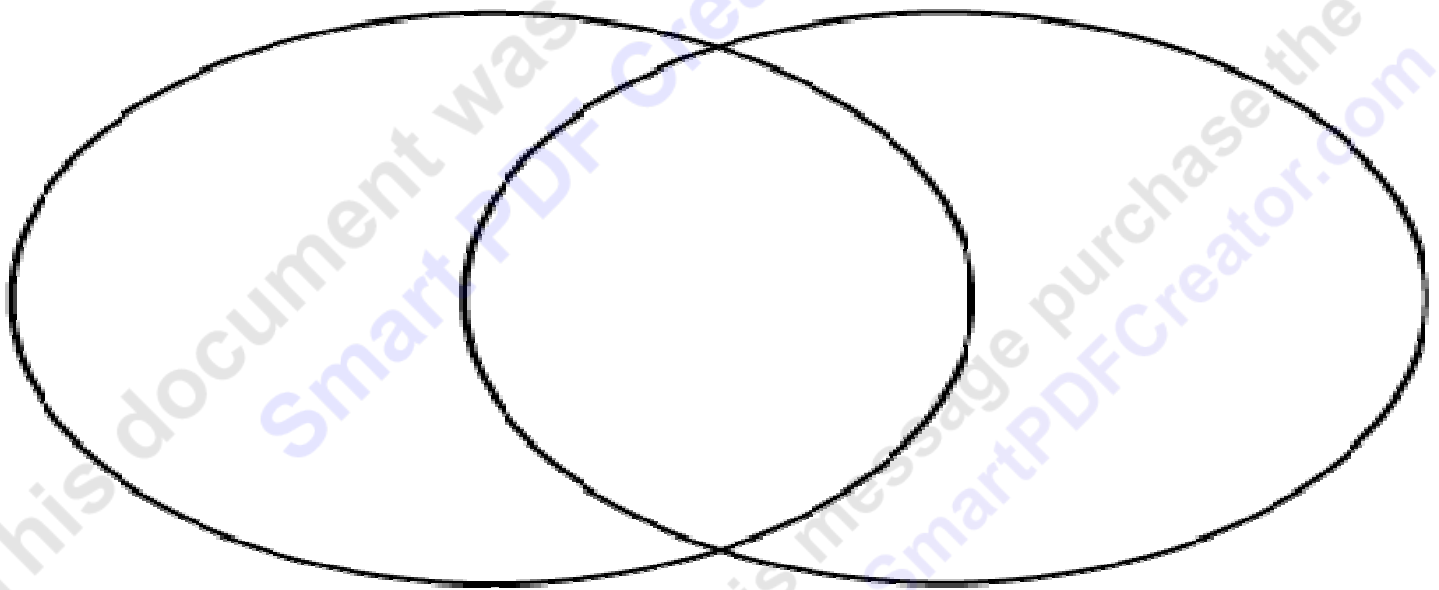
Why should we study soil? What is the importance of this unit? _____

What are the similarities and differences between mechanical and chemical weathering.

Mechanical Weathering

Similarities

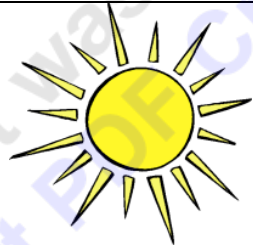
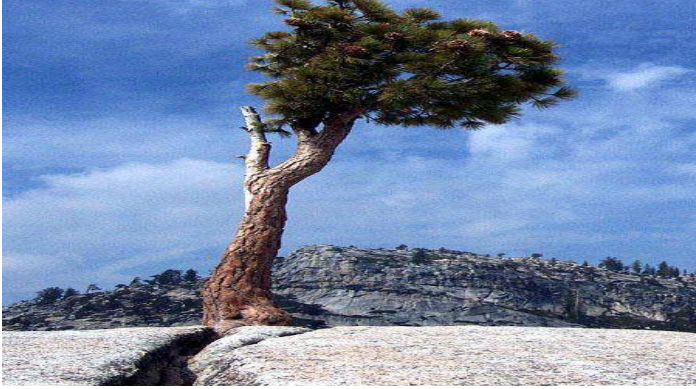
Chemical Weathering



Please describe the type of mechanical weathering represented by the pictures below.



Please describe the type of mechanical weathering represented by the pictures below.



Please describe two types of chemical weathering below. Use illustrations to support text.

This area is intended for the student to write their descriptions of two types of chemical weathering. The space is currently blank, with a large, faint watermark reading "To remove this message, please contact the product at www.SmartPrep.com" overlaid diagonally across the page.

Warning! Two part question -Please describe the types of weathering that is occurring on this tombstone, Next, describe the synergism between mechanical and chemical weathering?

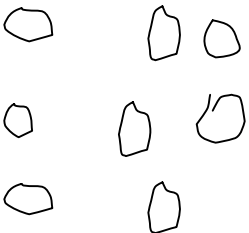
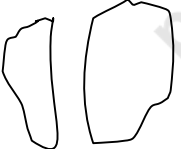
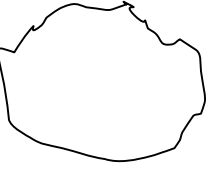
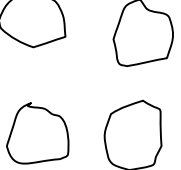



What is occurring in the photo on the right?



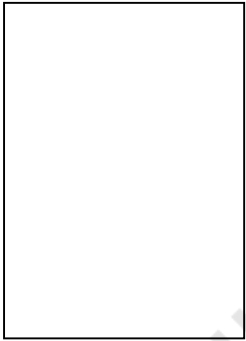
Aspen growth in Utah shows progressive soil creep downslope.

Please label 1-5 the order that the rocks below will weather

				
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What is the difference between dirt and soil? _____

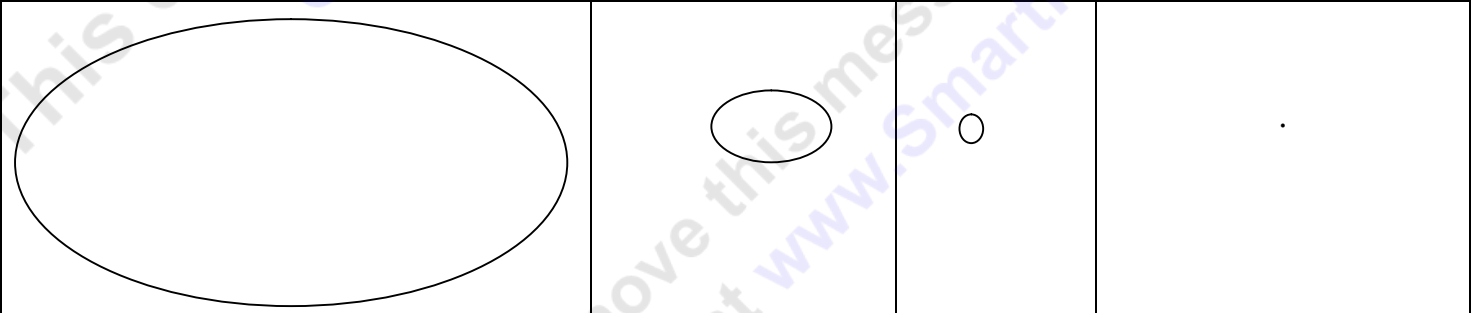
Please color the box below to represent poor soil. Explain why you colored it the way you did?



Please color the box below to represent healthy soil. Explain why you colored it the way you did?



Measure the soil particles below and name them as accurately as possible



Describe the soil content of soil sample A, B, C

	<p>A _____</p> <p>B _____</p> <p>C _____</p>
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Please label as Boulder, Gravel, Sand, Loam, Silt, or Clay

I am the best at holding nutrients? _____

I am the largest particle in this group? _____

I am the smallest particle in the group? _____

I have the greatest porosity and permeability? _____

I have the least porosity and permeability? _____

I am the best for growing plants? _____

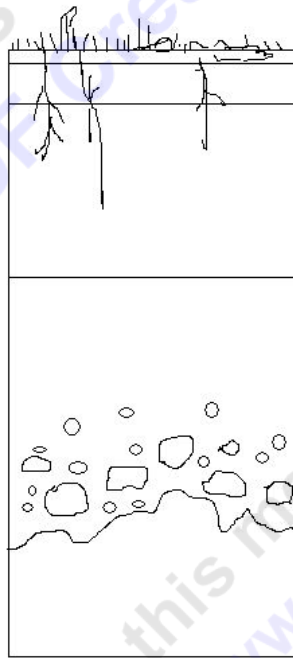
I am very easy to work and move _____

I am very difficult to work and move? _____

I am 33% Sand, Silt and Clay? _____

I am larger than Clay but smaller than Sand _____

Complete the soil horizon below.

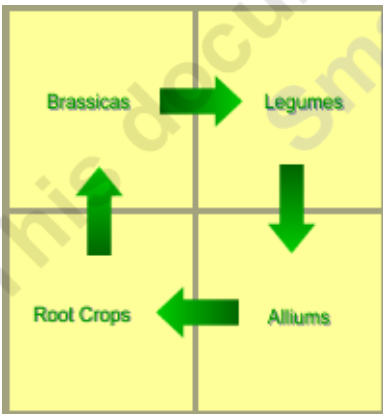


What is erosion, and why is it so important to protect soil? _____


Please describe the correct soil conservation method beneath the pictures below.



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Use the map below to describe North America about 20,000 years ago. Make sure to include ice sheets, alpine glaciers, and use the boxes to discuss some Paleoecology at the time,



The map shows North America with extensive ice sheets covering the northern and central regions. The ice sheets are depicted with a stippled texture, and their margins are clearly defined. The southern part of the continent is free of ice. To the right of the map are three empty rectangular boxes for notes.

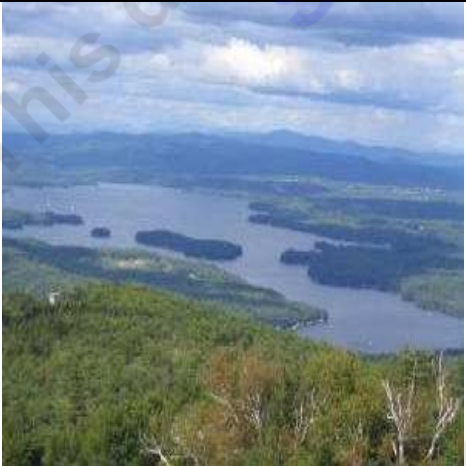
Please discuss how this rock arrived in the position that is, and why it is shaped the way it is?



Please identify and then describe the specific type of the glacial landforms below. In some cases more than one can be identified.



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Find and circle words associated with soil, weathering, ice ages, and glaciers. 30+ can be found! They can go forward and backwards.

EROGSOILGHYLMCHANICALWEATHERINGUGHQMSCHEMICALGH
O
IDLWFRFROSTWEDGINGMGARCHHGLOROOTWEDGINGHEMOLEKH
R
TGFOLIATIONHNMOMUHOYRPRCKSVHKTHERMALEXPANSIONYTW
O
THRELICHENSCARBONATIONGHANGLEOFREPOSENMYHJERETYES
R
ETYEMYEAREOXIDATIONHUSTALAGMITERTILOVEOFESITHJSOI
L
ISOSSLUMPHDIRTMNBOULDERJHYCOBBLEMNFGGRAVELIYPPEERC
L
YTYCLAYYGDUUSDUSTUPERMEABLEUGYRPOROSITYJUHORIZONER
O
ETEROSIONANDDEPOSTIONTGDUSTBOWL TERRACINGGYINGNOI
W
INDBREAKJNMANUREGLACIERJERRATICGICEBERGMAMMOTHDRS
H
TYTALUSCARCAIRNUSTRIATIONSUSHAPEDVALLEYFJFJORDTYTA
A
RNGHHORNTCIRQUEESKERUMORAINEDJDRUMLINEILOITOUTWAS
H
OTHISWASTHEMOSTANNOYINGTHINGIHAVEEVERDONEIMYLIFE
I
NEVERWANTTOSOMETHINGLIKETHISEVERAGAINANDIAMSOGLA
D
WOWMADISONBOULDERKRLAKEMISSOULAKETTLELAKEEREVOSTI

