

Why Are Some Regions Higher In Elevation than Others?

Observe the relationship between the height of each block and its thickness relative to other blocks

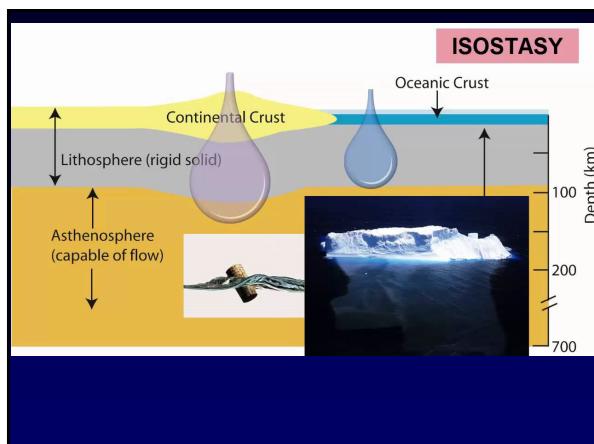
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Thick blocks higher than thin blocks

Dense materials (like a more dense wood) are lower

Relationship between crustal thickness and elevation:
isostasy

01.03.t1

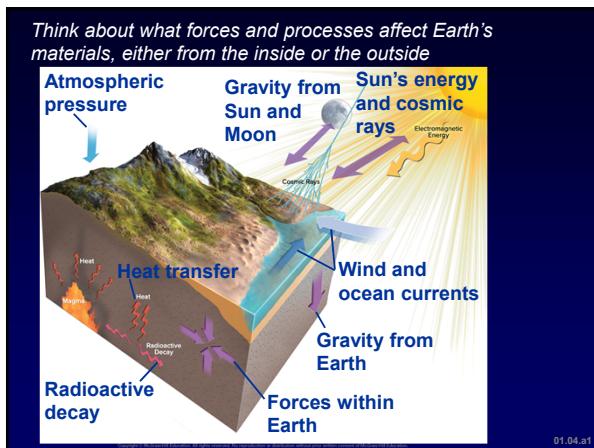


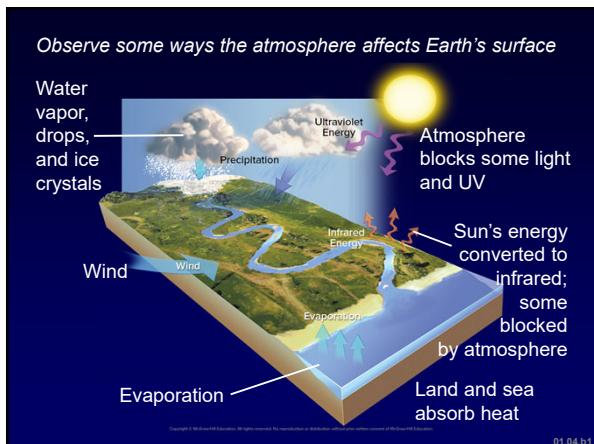
The Concept of Isostasy

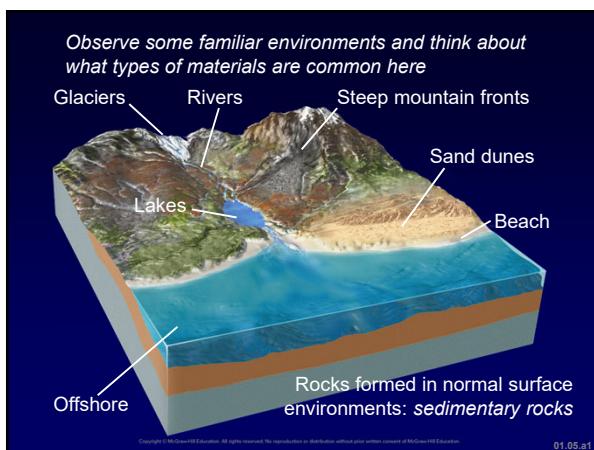
a. (Based on Bowie)

b. (Based on Longwell)

These figures show how either thickness differences or density differences determine how high the wood blocks will float.







Steep Mountain Front



01.05.a3

Steep Mountain Front

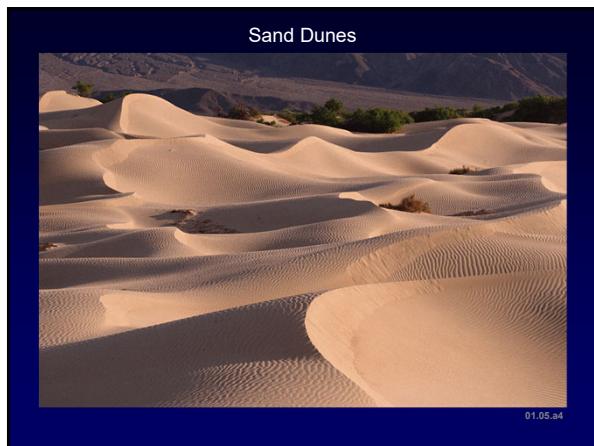


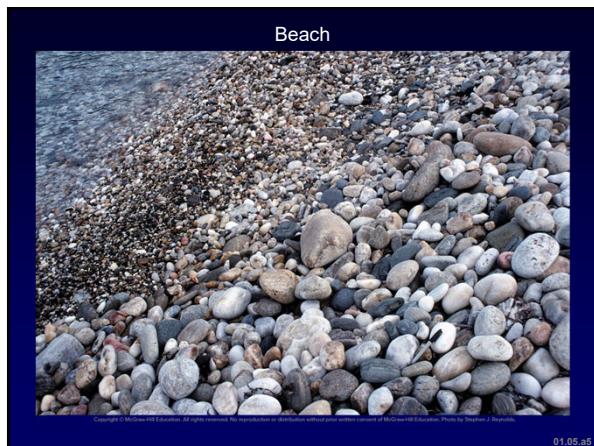
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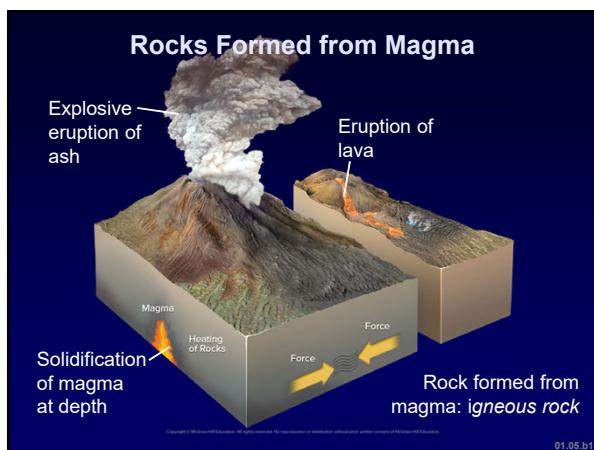
Sand Dunes

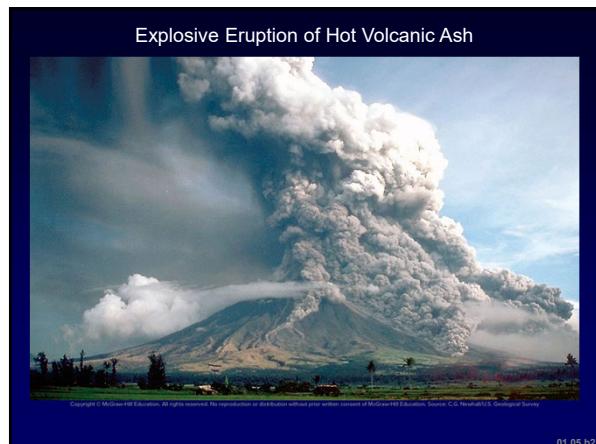


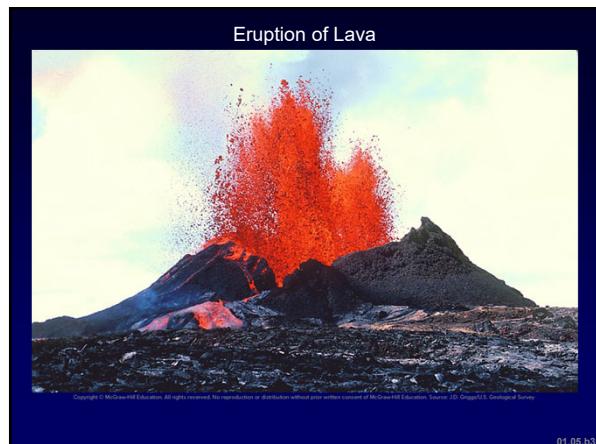
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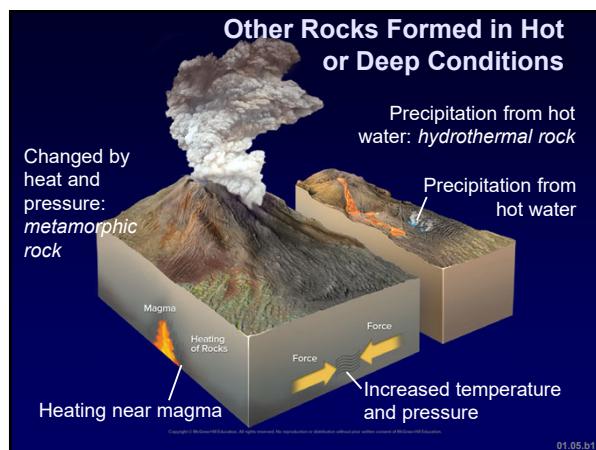


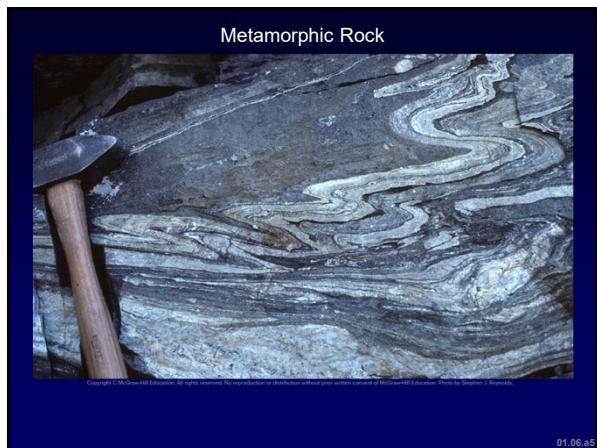


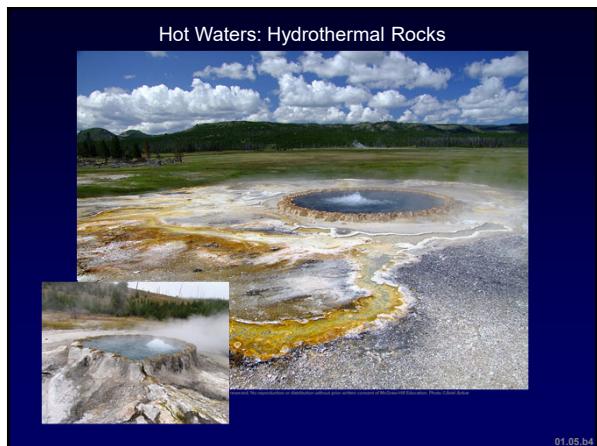




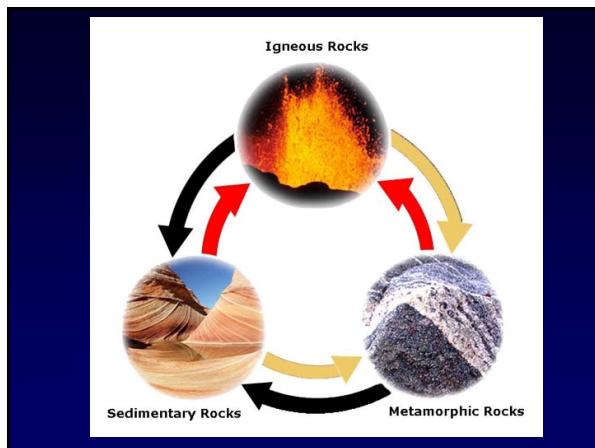


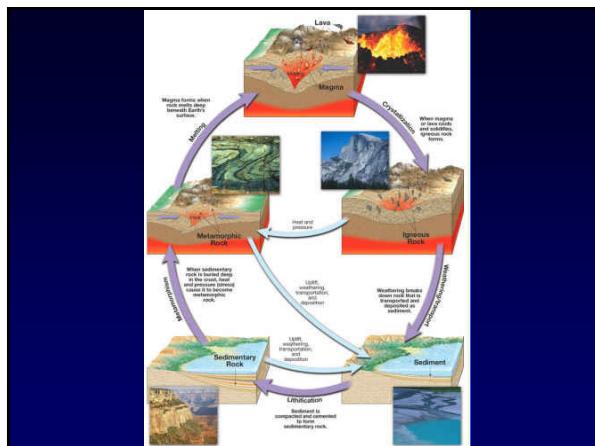


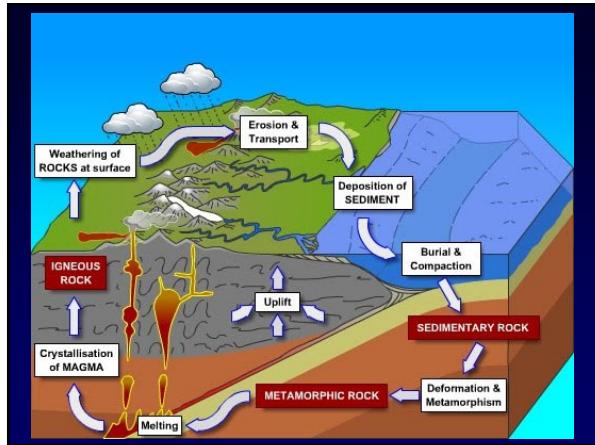


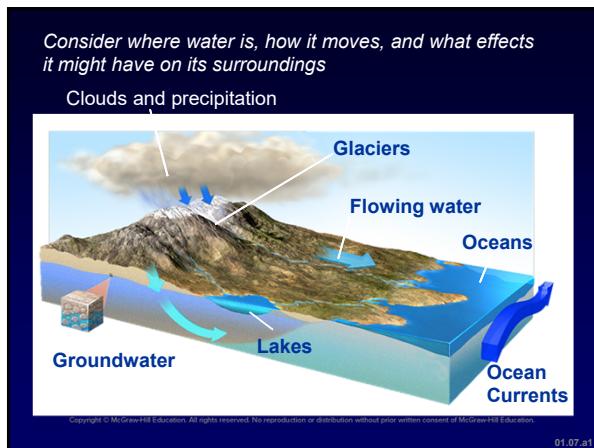


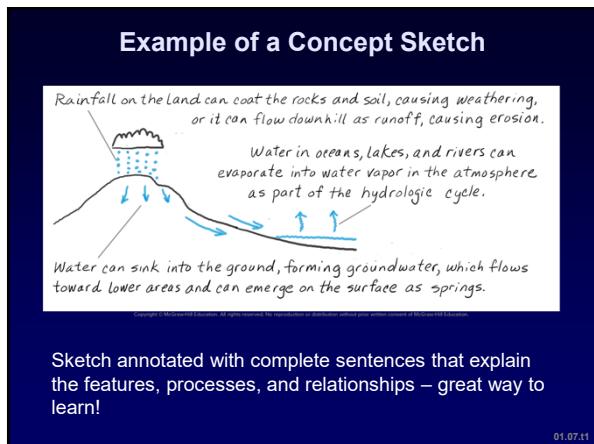


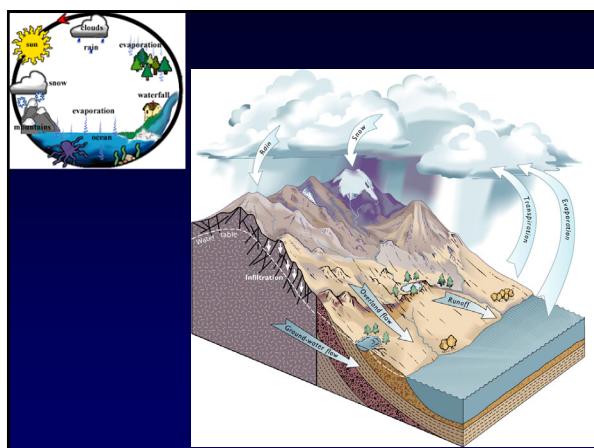


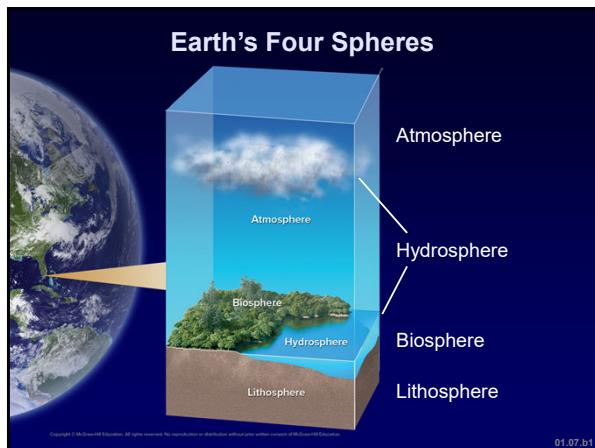






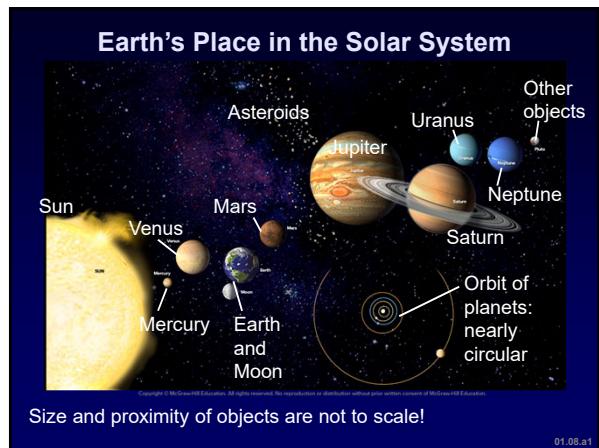


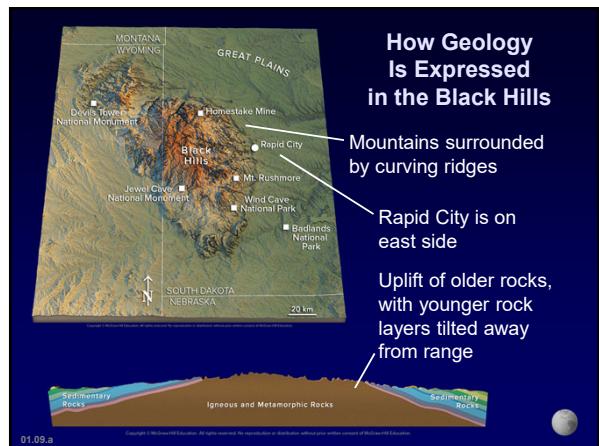


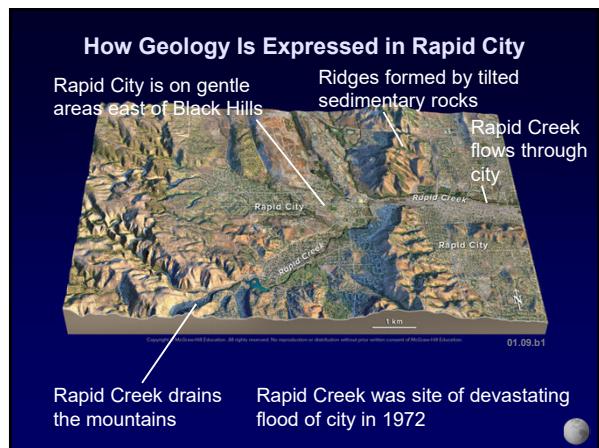




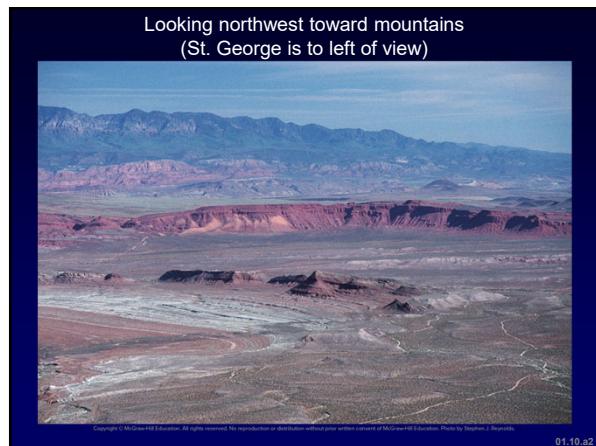


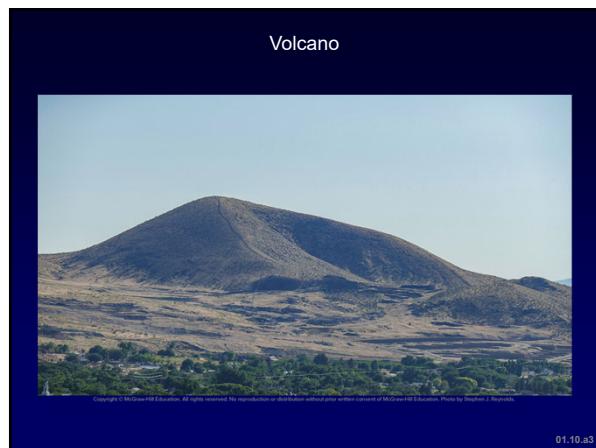












Cliff along Fault



01.10.a4

Farms along River



01.10.a5

Anticline (possible oil field at depth)



01.10.a6
