

Blake: To see the world in a grain of sand



1. a) Quartz,
A mineral from sand.
Why is quartz useful?



1. b) CaCO_3 (calcite), from seashells, plays a role in the carbon cycle. Explain.



2. More calcite: impurity changes colour. Is it still a mineral? Why?



3. Limestone(with fossils)

This too is mainly CaCO_3 .

a) If heated, an ingredient for what useful building material is obtained?

b) How does forming CaO pollute?



4. This mineral is *niter* = NaNO_3
- a) Which cycle does this mineral play role in?
 - b) Which ion in the mineral would make good fertilizer?
 - c) Is it an electrolyte?



5. a) Rock or mineral?
b) Why?



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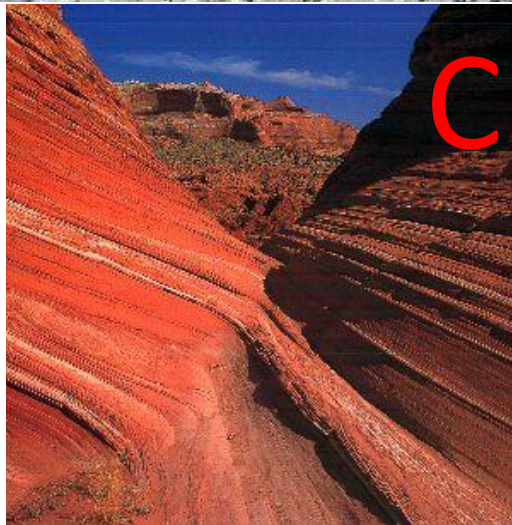
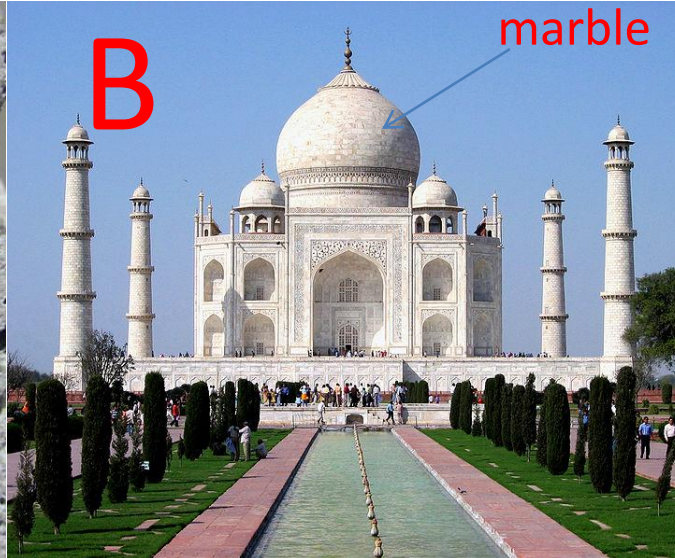


6. a) What's the connection between the 2 images?
- b) What is the rock used for?



7. What type of rocks are these?

8. Classify as metamorphic, sedimentary or igneous



Blake:

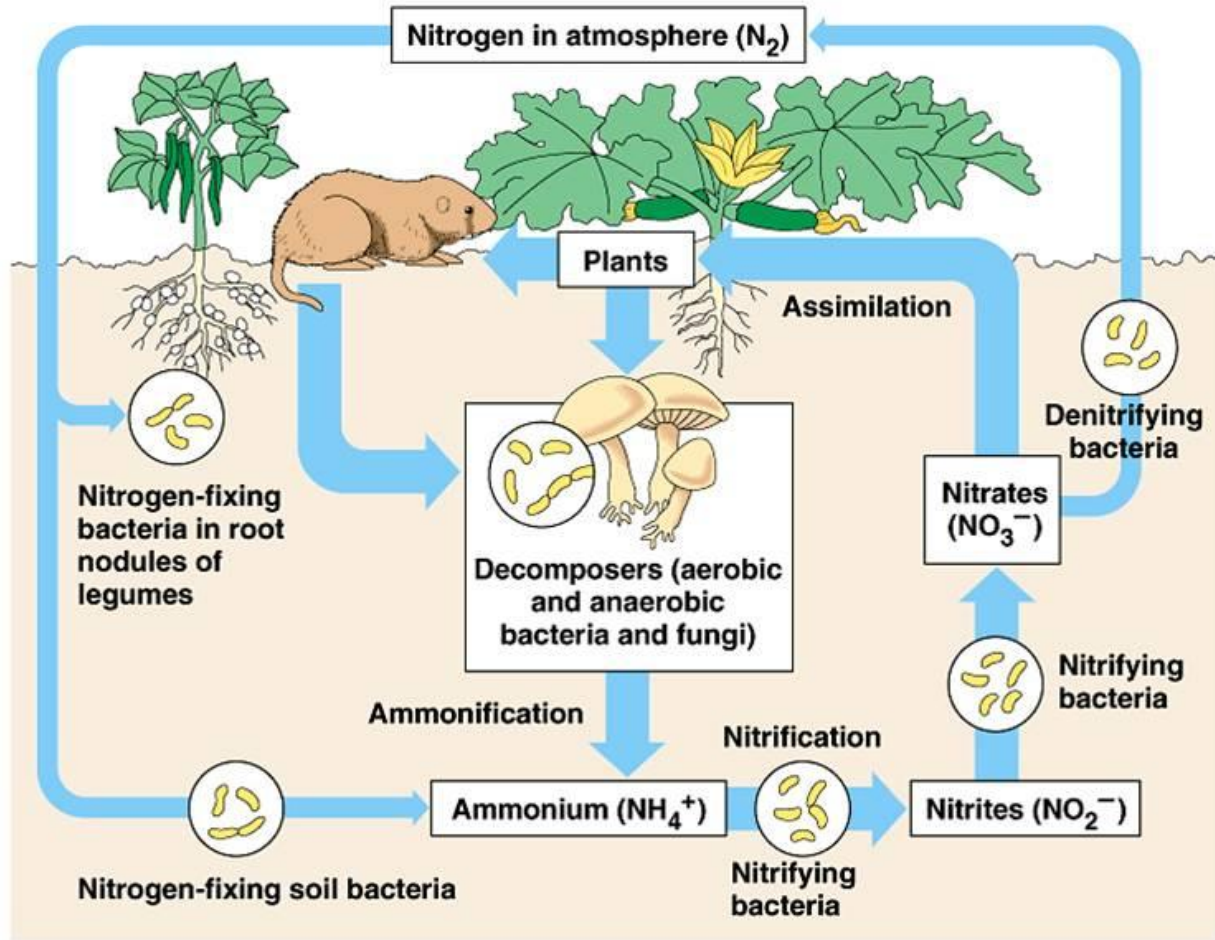
To see the world in a grain of sand, and heaven in a wild flower.



9. This is yellow clover, a legume. What important role does it play in the N-cycle?



10. How the brown infections related to the nitrogen cycle?



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11. a) From this diagram, choose three chemical forms of nitrogen that cannot be absorbed directly by plants.
- b) What do plants do after absorbing the useful form of nitrogen?