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.
3. Limestone (with fossils)
This too is mainly \( \text{CaCO}_3 \).

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

b) How does forming \( \text{CaO} \) 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?
6. a) What’s the connection between the 2 images?
b) What is the rock used for?
7. What type of rocks are these?

granite
8. Classify as metamorphic, sedimentary or igneous

A  
B  
C  
D
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?
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?