Title: Relative dating.

Objectives: Get a first hand look at what is meant by the principles of relative dating.

Instructions: You will take a short tour of a few of the rocks used in buildings on campus

1. Below is a picture taken at the mouth of rock canyon.

   A) Explain how you can tell the relative age of the quartzite and tillite.
   B) The tillite and quartzite differ in age by hundreds of millions of years. What is significant about the boundary indicated by the yellow line?

2. In the cross section to the left, what are the youngest and oldest items?

3. How can you tell the relative age of layers G and E? What about fault 2 and G? Can you tell the relative age of fault 2 and E?

4. In the courtyard of the new Joseph F. Smith building, there are large pieces of granite in a fountain. How does the age of the dark parts of the rock compare to that of the lighter grey. How can you tell the difference between rock that cross-cuts and an inclusion?