**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Boston Basin Field Trip Questions**

1. What is a geological terrane?
2. In the case of Massachusetts, what is the origin of these terranes. You will need to seek out online resources to answer this question.
3. The Boston Basin is found in which terrane?
4. What are the major geologic units in the Boston Basin - name and type of rocks.
5. In a west to east direction, what changes do you see in the types of rocks deposited in the Chestnut Hill Mall section? Which rocks are younger? What principle allowed you to make this distinction?
6. What is a sill and which slide shows a sill.
7. Conglomerate, sandstone, siltstone are what type of rocks (igneous, metamorphic, sedimentary). What characteristics are used to distinguish between these rocks?
8. Describe what you see on slide 23 and what does it mean?
9. Using the feature on slide 24, in what direction was the highland that was supplying sedimentary material to the Boston Basin?
10. Slide 25. How do you know this is a sill?
11. Slide 31. What is the significance of the change in clast size and density? An additional piece of information is that this outcrop is higher in the stratigraphic section relative to the outcrops in the Chestnut Hill Mall parking lot.
12. Slide 33. How can you tell this is a lava flow?