Name:_____ _____ **Date:** _____ **Period:** _____

Hit and Run Crime Scene

Joe and Mike are in an automobile involved in a one- car accident. Some property damage is sustained, and the car is badly damaged. This accident takes place in the evening and there are no witnesses present. The two men are only slightly bruised, neither sustaining any serious injury. Both persons do, however, suffer a bump on their head, with some lacerations of the skin and resultant bleeding. One person's head came in contact with the windshield of the car, as evidenced by the windshield being cracked, a small amount of blood, and a few strands of hair stuck to the glass at the place of impact. This was on the passenger side of the automobile. Both persons are suspected of having been under the influence of alcohol, and each maintains that the other was driving the car at the time of the accident. The officers at the scene, in attempting to determine the identity of the driver, collect blood and hairs from the impact point on the windshield. They have obtained hair samples from the head of each of the two persons involved and have transferred all materials to the forensic laboratory. Your job is to determine who was driving and who the passenger was on this fateful night.

Procedure:
1. Obtain a slide that has already been prepared for you.
   A= Crime Scene   B= Joe   C= Mike
2. Observe the hair under a microscope. Sketch in detail and color, then record your observations in the data chart provided to you below.
3. Repeat the procedure to observe Joe and Mike's reference hairs. Sketch and record observations in the data chart.
4. You goal is to determine whose hair is found at the scene.

Crime Scene (A)	Joe (B)	Mike (C)

Write a CER about your results. Make sure your CER includes the following:
1) Vocabulary: cuticle, cortex ad medulla
2) What controls where collected at the crime scene?
3) Who was driving?
4) Who was the passenger?
5) How do you know? Don't the comparison points.
6) How certain are you? What else could you do to confirm your results?
7) Can the race of Joe or Mike be determined? Why or why not?
8) Can the age of Joe or Mike be determined? Why or why not?