Forensic Science Do-Now

February 27th – March 2nd

Do Now 2/27/12

1. What is the equation for RI?

2. When light moves from a vacuum to another medium, its speed _____ _____.

3. What is the equation for Density?

4. What are the four types of glass?

Possible Answers – 2/27/12

1. $RI = c/v_{medium}$ ($c = 3 \times 10^8$ m/s)
2. Slow down
3. $D = m/v$
4. Window, pyrex, leaded, tempered

Do Now 2/28/12

1. Name two ways in which glass can be used as physical evidence (think of yesterday's article)

2. What will happen when a piece of glass is put into a liquid and they have the same RI as each other?

Possible Answers – 2/28/12

1. Answers may vary

2. The glass will look like it has "disappeared"

Do Now 2/29/12

1. What is the RI value for
    a. Vegetable Oil
    b. Water
    c. Clove Oil

2. If Pyrex disappears in vegetable oil, what is its RI value.

Possible Answers – 2/29/12

1. a. 1.47
    b. 1.33
    c. 1.53

2. You could infer that pyrex has an RI value of 1.47

Do Now 3/1/12

Possible Answers – 3/1/12

Do Now - 3/2/12

1. I have an RI of 1.47, what glass am I?

2. I have a density of 2.59g/mL and an RI of 1.54, what glass am I?

3. I appear to have greenish edges when viewed with a hand lens. My RI is 1.51 and my density is about 2.53 g/mL. What glass am I?

Possible Answers – 3/2/12

1. Pyrex
2. Tempered
3. Window