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### Fingerprints and Incomplete Dominance Lab (20 points)

**FINGERPRINTS:** EVERY PERSON HAS THEIR OWN UNIQUE PATTERN OF FINGERPRINTS. THIS FACT HAS LONG BEEN USED BY POLICE IN IDENTIFYING SUSPECTS. HOWEVER, ALL PATTERNS FIT INTO ONE OF THREE MAIN TYPES: **WHORL, LOOP OR ARCH**. WITHIN EACH OF THESE TYPES THERE IS AN UNLIMITED AMOUNT OF VARIATION. BUT EACH PERSON'S PRINTS WILL FALL INTO ONE OF THESE THREE MAJOR GROUPS.

**FINGERPRINT GENETICS:** THE THREE MAJOR FINGERPRINT GROUPS REPRESENT A CLASSIC EXAMPLE OF **INCOMPLETE DOMINANCE**. **INCOMPLETE DOMINANCE** OCCURS WHEN NEITHER THE DOMINANT NOR RECESSIVE ALLELES FOR A TRAIT ACT FULLY TO CREATE AN INTERMEDIATE PHENOTYPE. THE DOMINANT GENE DOES NOT COVER UP THE RECESSIVE GENE, BUT INSTEAD THEIR TRAITS ARE BLENDED TOGETHER. THIS SITUATION IS SEEN IN THE DIAGRAMS BELOW:



ANSWER THESE QUESTIONS BASED ON THE BACKGROUND SECTION ABOVE.

1. NAME THE PRINT PATTERNS THAT ARE HOMOZYGOUS. \_\_\_\_\_
2. NAME THE PRINT PATTERN THAT IS HETEROZYGOUS. \_\_\_\_\_
3. NAME THE PRINT PATTERN THAT IS A RESULT OF *INCOMPLETE DOMINANCE*?  
\_\_\_\_\_
4. IF THERE WERE NO *INCOMPLETE DOMINANCE* FOR THIS TRAIT, BUT ONLY COMPLETE DOMINANCE, WHAT WOULD BE THE ONLY TWO FINGER PRINT PHENOTYPES?  
\_\_\_\_\_ AND \_\_\_\_\_

**THE EXPERIMENT:** WHEN YOU HAVE CORRECTLY ANSWERED THE QUESTIONS ABOVE, SHOW IT TO YOUR TEACHER. YOU WILL RECEIVE A PIECE OF SCOTCH TAPE AND YOU MAY BEGIN THE EXPERIMENT.

**A. PROBLEM:** THE PROBLEM IN THIS EXPERIMENT IS TO DETERMINE YOUR PHENOTYPE AND GENOTYPE FOR THE FINGERPRINT GENES.

**B. METHOD:** PART ONE -

1. PREPARE A SCOTCH TAPE FINGERPRINT OF YOUR INDEX FINGER.
2. RUB A #2 PENCIL IN ABOUT A ONE INCH SQUARE ON A SHEET OF PAPER. THE IDEA IS TO MAKE A DARK MARK ON THE PAPER.
3. RUB THE FINGER PAD OF **YOUR LEFT INDEX FINGER** ON THE DARKSPOT.

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**SJ Ball**



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