

Impression Evidence

Name _____

Part A: Notes – Fill in the answers as we discuss the notes in class.

1. What are some examples of impression evidence?
2. What is the difference between 2D and 3D collection methods?
3. _____ characteristic matches evidence to a class or group, while _____ characteristics match of evidence to ONE specific item or person.
4. Identify each type of evidence to the right of the slide as either C for CLASS or I for INDIVIDUAL.

- ___ *Wear pattern on a shoe print matches a suspect's shoe (& his/her walking pattern)*
- ___ *Paint chip from a tool matches the type of red paint used on Tools R Us tools.*
- ___ *Tire tread pattern matches patterns used on a Hoosier 4-Ply Super Turf tire.*
- ___ *Broken corner on a screwdriver matches a mark left on a wooden doorway at a crime scene*
- ___ *Teeth or bite marks matches to a specific breed of dog.*
- ___ *Bite mark shows specific locations of teeth that can be matched to a suspect's dental profile.*

Part B: Bite Mark Evidence – Follow your teacher's directions to create models of your bite mark.

What CLASS characteristics do you see in your bite mark?

What INDIVIDUAL characteristics do you see in your bite mark? List 3 characteristics.

Part C: Bite Mark Challenge– Follow your teacher's directions to test each material. Complete the chart with your quality rating and observations.

Material	Quality	Observations

Which substance worked the best? Why?

What other substances could you use?

Part C: Tire Track Evidence – Follow your teacher’s directions to create models of your bite mark.

1. Tire tracks are important in forensic investigations and are usually found in road _____ scenes or may provide clues at _____ .

2. Investigators may make _____ of a tire or plaster _____ of a track. They will also take _____ that can later be used to prove a match.

3. Features to analyze:

- _____ pattern and _____ (width & depth) can help investigators identify the type of _____ that left them.
- Use tire _____ to determine the brand and model of the tire that left the impression.
- Unique characteristics due to the _____ , _____ , or material to help match it to a specific vehicle.

Tire Track Challenge

Task A: Use the supplies and cars available to make a reference set of tracks. Follow the teacher’s directions to document and label each car.

Examine the sample tracks. What similarities and differences do you observe? Explain.

Task B: Tire Track Challenge – Follow the teacher’s directions to complete the challenge.

Evidence	1	2	3	4	5	6	7	8
Matching Vehicle								

Real Deal Challenge	
A	
B	
C	
D	
E	
F	
G	
H	
I	