T	T	1 ~ ~ ~ ~
Trace	LVIO	ience

Name
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Use the websites on the Forensic Science Links (page 2) of the Kid Zone at <a href="http://sciencespot.net/">http://sciencespot.net/</a> to complete this worksheet.

1 <sup>st</sup> Site: Wikipedia – Locard's Principle
1. Edmund Locard was the director of the very first laboratory in existence, located in Lyon
2. His exchange principle states that "with between two items, there will be a
3 is any type of material left at—or taken from—a crime scene, or the result of the details between two surfaces.
4. Why is evidence placed in a paper bag or envelope rather than a plastic one?
<ul> <li>2<sup>nd</sup> Site: AC Trace Evidence</li> <li>Hair is one of the most telling pieces of trace evidence that can be collected from a crime scene. Name two way</li> </ul>
hairs may be used to help an investigation.
1.         2.
2. Fibers from, carpet, and other sources that are foreign to the crime scene maindicate that the initial attack happened somewhere else, or might point to where the suspect of
3. Shattered might indicate where a victim has been held, such as in a hostage situation, an chips might tell the investigators what kind of the suspect drives.
4. Dirt has different compositions in different areas of the same city and can tell investigator where a or has been. Similarly, certain kinds of dust – such as – can only be found in certain areas.
5. Ballistics is the study of the marks and residue left by and A lot can be determine from the made by a bullet or by the gunshot on a victim's skin.
6. When a criminal uses a to break into a home, the type of tool used leaves tell-tale marks i, metal, and other surfaces that can tell the investigators exactly what it was.

## Site #3: Hair Detective 1. Read through the story and write a brief description of the crime. 2. Click to go to the lab to answer these questions. (A) What is the power of magnification on the scanning electron microscope? (B) What other equipment/tools will you use? (C) Follow the directions to test each hair. (D) What was the outcome?

Done? Explore any of the other sites on the Forensic Science pages of the Science Spot's Kid Zone.