Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Latent Fingerprints: Using Iodine Fuming**

Safety Precautions: Solid iodine and iodine fumes are toxic. Do not leave lids off of jars. Wash hands after handling all materials. Perform fuming in a well-ventilated location.

Procedure:

1. Plant a fingerprint on a small piece of white paper.
2. Carefully (using tweezers) place the paper in a small jar containing iodine crystals.
3. Wait approximately 5 minutes for the reaction to take place.
4. Upon development, carefully remove the paper from the jar, and IMMEDIATELY snap a picture (with a camera phone), as the developed print will fade quickly.
5. Tape the developed print in the space below.
6. Identify the ridge pattern and 5 minutiae.

Tape developed print here:

Questions:

1. What kinds of materials could be developed in this way?
2. What are the advantages to this method of latent print detection?
3. What are the limitations of this method of latent print detection?
4. How could this technique be useful to a forensic scientist?