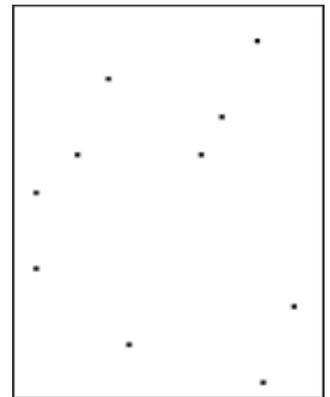# The Student Identification Finger Imaging Process

In order to be registered in the computer software, the student's finger is scanned by the finger scanner.

The computer software develops a grid of intersection points from the swirls and arcs of the scanned finger.

A template is created by the software that shows the intersection of unique points on the finger.

```
4546545444554
4464564564564
5645789780064
1331899714532
6789452145794
643212317+956
1313468868645
4867561752322
31548444
78654894
```

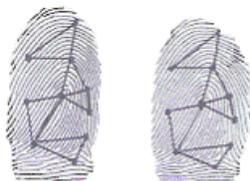The software stores a set of numbers that can only be interpreted as a template.

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When the student returns to be identified, the finger scanner again scans the finger.

The computer software now compares the new scan (Scan 1) with the other scans in the database. When a matching scan is found (Scan 2), the student is identified.

Scan 1   Scan 2

This identification and matching process takes under one second to complete.

AT NO TIME IS A FINGERPRINT IMAGE EVER STORED.
NO FINGERPRINTS CAN BE RECREATED FROM THE SCAN!

Differences Between Student Identification Software and Law Enforcement Applications

Students Identification Software	Law Enforcement Applications
Uses flat images of finger to create templates	Captures rolled images of all 10 fingers
Flat images reveal the center of the finger and require only a minimum of unique identifying points in order to make a match	Rolled images capture unique identifying points on the entire finger surface in order to collect the maximum number of unique identifying points
The purpose is to identify a student already enrolled in the software	The purpose is to identify suspects based on fingerprint images directly taken from a crime scene

Frequently Asked Questions

Q: "Can my fingerprint be given to anyone else?
A: No. There are no fingerprint images stored. Only numerical representations of the unique point of the fingerprint are stored.

Q: "Can my fingerprint data be taken off the computer and used to re-create my fingerprint?"
A: No. There is no way for any fingerprint expert, or anyone else, to take the numerical representation and reconstruct a fingerprint image from the data. There is no way to "reverse identify" a person.

Q: "Can my fingerprint be taken from the computer software and used on another fingerprinting system?"
A: No. Because of the way the template of unique points is stored, it is useless to a law enforcement application.

Q: "Can my fingerprint be copied or used by anyone else?"
A. **No. It is impossible to duplicate or falsify fingerprints from the information stored by the computer software.**

Q: "Are my finger-scan templates given or sold to anyone?"
A: No. This information remains with the school district.