

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Clara L. Cady-Dreher	$  $ $\wedge$ $ $
Clara L. Cauy-Dicher	
Duciest Title	38111
Project Title	
Let Your Fingers Do the Talking	
	$\sim \sqrt{7}$
Abstract	
Objectives/Goals	
The objective of this study is to determine if children carry the same fingerprine	n satterns as their
biological parents. Methods/Materials	$\mathbf{O}$
Standard FBI issued 10-print fingerprint cards, black fingerprint job (both of v	high are used by law
enforcement for clarity and consistency) and a lighted jeweler's loupe	vine i are used by law
Results	V
Several families with varying numbers of children were fingerprinted on stand with black ink. Fingerprints were classified into one of the t-basic fingerprint fingerprint of each family member was further classed down into the S-basic fi	ard FBI fingerprint cards
with black ink. Fingerprints were classified into one of the basic fingerprint	pattern categories. Each
fingerprint of each family member was further classed down into the Subsic fi	ngerprint pattern
sub-categories. Each family member was compared with one another to find s	similarities and differences.
Conclusions/Discussion	ant that no abild carried a
Several families were fingerprinted and compared and the results were consist fingerprint pattern that one or both of their biological parents did not carry. Fu	inthermore when compared
at the subcategory level, the results remained the same.	arthermore, when compared
$\frown$ $\checkmark$ 7	
Summary Statement	
I found that children carry fingerprint patterns that one or both of their parents	have.
Help Received	
I conducted the fingerprinting of families myself. However, retired Evidence	Technician and court
qualified Latent Print Examiner reviewed my classifications to ensure they were correct.	