



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> Emily E. Luna	<b>Project Number</b>  28159
<b>Project Title</b> Investigating Environmental Condition with Fingerprint Quality on Glass Surfaces	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> Is to determine if you can find a good quality fingerprint when you put glass in the oven, freezer, and rain. I sent the 40 samples to local officers to judge the fingerprints from a scale of 1-3. 1 being bad to use as evidence. 3 being can be used as evidence.</p> <p><b>Methods/Materials</b></p> <ul style="list-style-type: none"><li>-40 glasses</li><li>-non-serol gloves</li><li>-negative 10 degrees freezer</li><li>-200 degrees oven</li></ul> <p>Latent print feild kit</p> <ul style="list-style-type: none"><li>-dusting brush</li><li>-black fingerprint powder</li><li>-fingerprint index card</li><li>-ink pad</li><li>-cutting blade</li><li>-tape</li></ul> <p><b>Results</b></p> <p>Rain on Glass</p> <ul style="list-style-type: none"><li>-overall average of 2.2 out of 3</li></ul> <p>Heat on Glass</p> <ul style="list-style-type: none"><li>-overall average of 1.1 out of 3</li></ul> <p>Freeze on Glass</p> <ul style="list-style-type: none"><li>-overall average 1.2 out of 3</li></ul> <p><b>Conclusions/Discussion</b> The overall result is that Rain has the best quality and should be used as evidence in a crime scene. Heat had the lowest rating out of all.</p>	
<b>Summary Statement</b> Investigating Environmental Conditions with Fingerprint Quality on Glass Surfaces	
<b>Help Received</b> 3 police officers judge fingerprints	