

Courtney Colyer  
*Liar, Liar, Pants on Fire!*

The purpose of my project is to show that there are other ways to detect a lie besides a polygraph test. I wanted to see if I could read someone's face to tell if they were lying and if it was more accurate. Face reading could help investigators determine if someone is lying and lead them on the right track quicker. After getting my subjects' consent, I hooked them up to an EKG sensor and skin resistance meter. I asked them 5 questions that they were instructed to tell the truth on and 5 questions they were told to lie on for a baseline/control. Once I had a baseline, I had them tell me two truths and lie, on two different random topics. They were on video the entire time so that later I could go back and review their faces. After making my final decision on which statements were a lie, I compared my results to the EKG's. In the end the EKG sensor was only able to definitively detect a lie 7% of the time. I was able to tell if someone was lying by their facial expressions 93% of the time. This is more accurate than a polygraph test which has an accepted accuracy rate of 85%.