**Crime Scene Experiment #1: Center of Balance**

Follow the steps exactly.

Find a wall in your home near a door frame. Make sure that there are no items of furniture near it. Have a partner stand near you as you approach the wall. Put the side of your right foot against the wall. Make sure that the whole side of your foot is touching the wall at the ground. Put your right shoulder against the wall and have the side of your right leg, right arm, and torso touch the wall. Bring your left leg in toward the wall.

You can’t do it can you? That’s because your center of gravity is too far left. What did you do when you moved your left foot toward the wall? Did you reach out and grab the door frame to prevent yourself from falling? Or did you fall into your partner’s arms? If you didn’t lose balance, you cheated, you crook!

**Crime Scene Experiment #2: Crime Scene Diagram**

Equipment:

1. Pencil
2. Eraser
3. Graph paper or plain white paper
4. Tape rule
5. A partner to help you hold the “stupid” end of the tape rule

Step 1: Choose a room in your house. Draw a rough outline of the room. Begin at the corner of your choosing and measure the wall to the next interruption, such as a door frame or a window frame. Log the distance in inches on your rough drawing. Continue these measurements until you have completely encircled your room.

Step 2: On separate sheets, draw a rough outline of each wall. Take measurements of the various interruptions on the wall (doors and windows) from the interruption to the floor, then to the ceiling.

Step 3: After you have logged all your measurements, sit down with a clean piece of graph paper and draw out your diagram (with straight lines) of an exploded view of your room.

Step 4 (optional): Grab a box of crayons and create a masterpiece.