

Pre test procedures

NO NOTES of any kind are allowed, make sure everyone is wearing goggles or glasses.

Pre test announcements-Read these exactly as written to each group

- 1) Powders are labelled on the sides of the container
- 2) *Point out the chromatography station, the evidence station and the suspect station.* Students will need to visit each of these stations to complete the test, but everyone shouldn't go at the same time.
- 3) The 2 empty cups at each station are for chromatography. The third cup has water you pour into the other two as needed. Use it like a watering can.
- 4) All pieces of evidence are equally important in solving the crime. The suspect with the most evidence against him/her is guilty. It doesn't matter what the evidence is.
- 5) No extra powder is available.
- 6) You earn points for powders you correctly identify. If you say a container has a mixture, but it only has one powder, you will lose partial points. Don't list two powders unless you are sure it is a mixture.
- 7) You lose points for guessing there are more criminals than there are. Only write down one suspect as the criminal unless you are sure there are more.

Science Sabatoge setup

General supplies-

Paper towel

Distilled water (you may need to refill before group 2 comes in)

Extra chromo strips, Extra popsicle sticks

Each team station receives-

Test-turned upside down

1 bottle vinegar, 1 iodine, 1 distilled water

36 Plastic cups for testing,

15 popsicle sticks

3 Plastic cups (one with water) for chromo test

1 egg carton (contains 2 popsicle sticks, 2 chromo strip and 12 containers of powder(s))

Masking tape

2 pencils

Magnifying glass

Black pieces of construction paper

1 sheet paper towel to dry chromatograms on

1 sharpie (for making notes on cups, don't use this for the chromatograms)

2)Chromo station-You can provide no guidance, help, answers or assistance to questions. They must do this completely on their own to be fair.

Two labelled black pens

FYI-What students should be doing-bring their labelled chromatography paper to the station, put a dot on each strip and take it back to their station to complete their test.

3)Evidence station – Nothing can be removed from this station **Must be next to suspect station**

Note with Finger prints and writing found at crime scene

Drawing of room layout

4)Suspect Station-Nothing can be removed from this station ** Must be next to evidence station**

Suspect favorite pen chromatograms

Suspect finger print samples

Clean up-

Egg cartons contain non hazardous powders. Any sample cups should be recapped, put in the egg carton and tossed in the trash. Station needs to be wiped dry

Unused cartons should be saved for second group.