

Prep Instructions

Part I - Preparing Food Colouring Sample Vials

The following items will be required for the prep of this part of the activity:

- masking tape
- 36 glass vials
- food colouring

The samples in this activity consist of one control sample, four unknown samples and one sample from the crime scene for a total of six samples per group.

Step 1

Using masking tape, label the six vials as follows: C for control, CS for crime scene and 1 to 4 for the suspects.

Step 2

When preparing the samples, always use the same total number of drops per vial (in these instructions, there are nine drops total). For larger samples, increase the number of drops put into the vials. Put equal amounts of each colour (red, blue and yellow) in the control vial. A table is provided below as an example of how to set up the vials. The CS vial must be the same as one of the other suspect vials, but which suspect it matches can vary.

VIAL	DROPS OF RED	DROPS OF BLUE	DROPS OF YELLOW
Control (C)	3	3	3
1	6	2	1
2	5	2	2
3	4	1	4
4	7	1	1
Crime scene (CS)	4	1	4

Step 3

Repeat Steps 1 and 2 until each group has 6 prepared vials.

Part II - Preparing the Styrofoam Comb

The following items will be required for the prep of this part of the activity:

- scissors
- styrofoam plate
- craft knife
- pencil

Step 1

Cut out the stencil of the comb shown in **figure 1**. Trace the comb onto a styrofoam plate. Using a craft knife, cut out the comb from the styrofoam plate.

Step 2

Use a pencil to draw a line 0.5 cm up from the bottom of the comb.

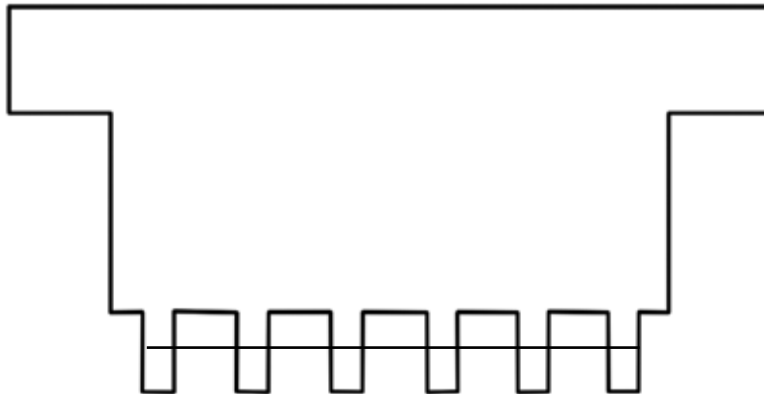


Figure 1