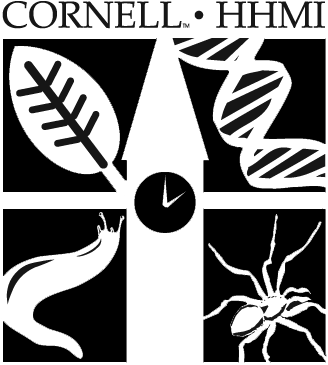
**CIBT – Cornell Institute for Biology Teachers**

**The Case of the Missing Diamond Maker**

**Packing List per station**

**(highlighted in red is what teachers need to provide)**

**A. For the Teacher’s fingerprinting demo, the day before the lab**

1. Orange powder and brush
2. Blue light
3. Black powder and 4 black powder brushes
4. Fingerprinting tape
5. A few adult latex gloves inside bag
6. Forensics yellow tape
7. Forensic evidence numbers

**B. For the students making/lifting their own fingerprints, the day before the lab:**

1. 12 Fingerprinting pads

2. 12 laminated fingerprinting types handout

3. 12 magnification glasses

4. Glassware

**FOR THE DIFFERENT STATIONS THE DAY OF THE LAB**

**STATION #1. Fingerprinting**

1. 4 laminated copies of the **suspects** fingerprint handout
2. 4 laminated copies of the **evidence** fingerprint handout
3. 4 magnifying glasses

**STATION #2. Chromatography**

**** 1. Filter paper cut into 2.5X7.5 cm strips

2. 4 plastic beakers labeled ‘Chromatography’

plus one ‘demo’ beaker

3. 4 wooden dowels + 2 extra

4. 4 binder clips + 2 extra

5. 4 different black markers labeled A,B,C,D

6. Prepared evidence strip prepared with ‘C’ black

pen, labeled ‘Evidence’

7. Trays, one per group labeled with the group’s number

8. Rulers to measure the 2 cm in the filter paper

9. Trash beaker

10. Scotch tape (to tape the chromatography samples to the handouts)

11. Stopwatches?



**STATION #3. Fiber Analysis**

1. 6 different fabrics cut into 5 cm squares, inside different baggies

and labeled: Maria, Randy, Sandra, Malcom, Dr. Evil and Dr. Squeeze.

1. Four magnifying glasses

**STATION #4. Smells**

1. 5 plastic canisters labeled: Sandra, Dr. Evil, Randy, Malcom,

Evidence

1. Strips of filter paper sprayed with 4

different perfumes.

(The filter paper in the ‘evidence’ canister was sprayed with Sandra’s perfume)

**STATION #5. Spilled liquid**

1. Set up 4 plastic cups or beakers labeled ‘orange juice’, ‘water’, ‘Alka seltzer’ and ‘Gatorade’. Pour orange juice, water, Alka Seltzer and Gatorade in the corresponding cup.

2. Provide pH paper and paper towels

**(The pH of evidence is 3)**

4. Trash beaker

**STATION #6. Spilled powder**

1. Laminates with the instructions and places for ‘baking powder’

‘baking soda’ and ‘powdered sugar’

1. 3 containers labeled and full of the following: baking powder, baking soda, powdered sugar

3. 1 water dropper

4. 1 vinegar dropper

5. 3 scoops labeled ‘baking powder’ ‘baking soda’ and ‘powdered

 sugar’

6. Paper towels

7. Trash beaker