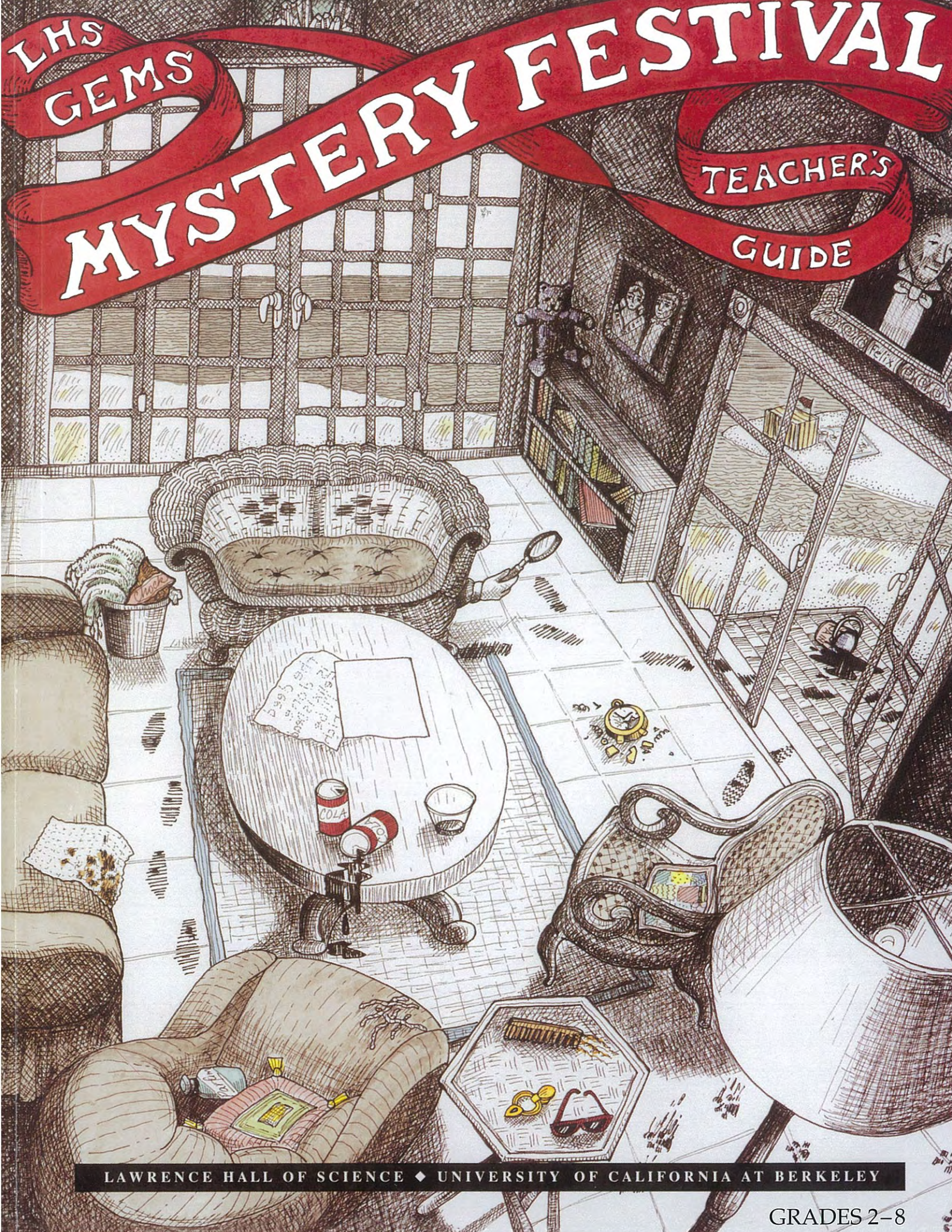


LHS
GEMS

MYSTERY FESTIVAL

TEACHER'S
GUIDE



LAWRENCE HALL OF SCIENCE ♦ UNIVERSITY OF CALIFORNIA AT BERKELEY

GRADES 2-8

Mr. Bear Mystery

• Shopping & Gathering List for all five Mr. Bear Sessions •

(for a class size of about 32)

See page 97 for a sample letter asking parents to contribute materials.

- five stuffed animals (one of which must be a bear)
 - ~ 6 feet of white cotton yarn
 - ~ 6 feet of colored cotton yarn
 - ~ 6 feet of colored wool yarn (best if the yarn looks "woolly.")
 - 1 long piece of string or rope to barricade crime scene (~50 feet)
 - 16 pencils
 - 1 brown felt water-base marker
 - at least 1 marking pen (variety of colors is ideal)
 - 1 package white paper towels
 - 3 white sheets of 8 1/2" x 11" paper
 - 40 feet butcher paper
 - 1 roll of Universal pH paper (the exact brand is not important)
 - 1 roll of transparent adhesive tape
 - 1 roll of masking tape
 - 1 pair of scissors
 - 16 clear plastic cups
 - 3 empty film canisters
 - 1 ice cube tray
 - 2 white test trays ("styrofoam" egg cartons cut in half work well, if these are not available, use white plastic paint trays from an art store or white ice cube trays.)
 - 1-4 small dropper bottles (empty medicine dropper bottles, saline bottles or similar small bottles are fine)
 - 2 empty cola cans
 - ~ 1/4 cup cola
 - ~ 1/2 ounce of iodine
 - 2 tablespoons of red food coloring
 - 1 tablespoon of green food coloring
 - ~ 1/4 cup of baking soda
 - ~ 5 tablespoons of corn starch
 - 1/2 teaspoon salt
 - 1 1/2 teaspoons sugar
 - 1/4 teaspoon
 - 1/8 teaspoon
 - a yardstick
 - stir stick
 - 1 paintbrush (any kind)
 - 1 paint container (a plate or cup is fine)
 - 2 colognes or perfumes, as different from each other as possible. (get samples from department stores, bathroom cabinet, magazines, etc.)
 - 1 wastebasket
 - 4 small mirrors, preferably with stands (clay works as a makeshift stand)
 - 1 large plastic trash bag
 - 1 sponge
 - ~ 30 strands of pet hair (dog or cat hair is fine)
 - ~ 1 handful of grass
- Optional for Session 1:**
- a Polaroid or video camera to record pictures of the crime scene
- Pages to be copied from this guide:**
- footprints for scene of the crime (page 25)
 - pictures of suspects (pages 40-44)
 - Clue Board illustrations (page 39)
 - 4 copies of the "Suspect Fingerprints" sheet (page 63)
 - 4 copies of the "Cup Fingerprints" sheet (page 62)
 - 8 copies of the "Mr. Bear Footprints" sheet (page 31)
 - 4 copies of each of the station signs
 - For every two students: 1 copy of the "Mr. Bear Mystery Data Sheet" (pages 64-65)
- Depending on the option you choose in Session 5, you may also need:**
- paper
 - crayons or colored markers
 - a chalkboard and chalk

Felix Mystery

• Shopping & Gathering List for all five Felix Mystery Sessions •

(for a class size of about 32)

See page 200 for a sample letter asking parents to contribute materials.

- ~ 6 feet of white cotton yarn
- ~ 6 feet of colored cotton yarn
- ~ 6 feet of colored wool yarn
- a long piece of rope or string to barricade crime scene (~ 50 feet)
- 21 pencils
- 2 marking pens (1 permanent)
- 1 brown felt water-base marker
- 1 package of white paper towels
- ~ 40 feet white butcher paper
- 12 sheets of 8 1/2"x11" white paper.
- ~ 50 lined 3" x 5" index cards
- 1 pad of 100 3" x 5" Post-it® notes (not needed if you make a chalkboard Clue Board—see #2 in Getting Ready)
- 1 roll of Universal pH paper with color chart (the exact brand is not important)
- 1 piece of tag board ~8 1/2" x 11" (the cardboard back of a notepad is fine)
- 1 roll of 3/4" clear adhesive tape
- 1 roll of masking tape
- 1 pair of scissors
- 18 clear plastic cups
- 2 one-gallon zip lock plastic bags
- 6 empty film canisters
- 2 white test trays (Styrofoam egg cartons cut in half work well. If these are not available, use white plastic paint trays from an art store or white ice cube trays.)
- 2-5 dropper bottles (empty medicine dropper bottles, saline bottles or similar small bottles are fine)
- 2 empty cola cans
- 1 meter or yardstick
- 1 metric ruler
- five 1/8 teaspoons (or use 1/4 teaspoons & have students estimate half)
- ~ 1/2 ounce of iodine
- ~ 2 cups baking soda
- ~ 2 cups corn starch
- ~ 1/4 cup cola
- 1 ice cube tray
- 1 paintbrush (any kind)
- 1 paint container (a plate or cup is fine)
- 1 wastebasket
- 1 chocolate candy wrapper
- 1 white cotton towel
- 1 comb with several strands of human hair
- 3 tablespoons of red food coloring
- 1 tablespoon of green food coloring
- 1 "broken" alarm clock
- 4 colognes or perfumes, as different from each other as possible (get samples from department stores, your bathroom cabinet, friends, magazines etc.).
- 1 small container of Krazy Glue®
- 1 pair plastic gloves
- 2 sheets of aluminum foil about 12" x 16"
- 2 votive candles
- 1 book of matches
- At least 1 pair of safety goggles (4 pairs would be ideal, swimming, snorkeling or ski goggles are all fine).
- 4 pairs of metal tweezers, tongs or equivalent
- 4 small mirrors, preferably with stands (clay works as a make-shift stand)
- 2 "eggs" of Silly Putty™
- 1 large plastic trash bag
- 1 sponge
- 4 old sweaters or t-shirts
- 4 bags (brown paper shopping bags or plastic bags are fine)
- ~ 30 strands of pet hair (dog or cat hair is fine)
- pinch of human hair, grass, threads, yarn, for tape lift examples sheet.

Pages to be copied from this guide:

- footprints for scene of the crime (page 116)
- pictures of suspects (pages 141-144)
- 4 copies of the "DNA Fingerprints" sheet (page 178)
- 4 copies of the "Suspect Fingerprints" sheet (page 130)

continued ►

Felix Mystery • Shopping & Gathering List continued

- 4 copies of the "Suspect Handwriting Samples" sheet (page 185)
- 4 copies of the "Tape lift Examples" sheet (page 178)
- 8 copies of the "Suspect Footprints" sheet (page 129)
- 4 copies of each station sign
- for every two students: one copy of the "Felix Mystery Data Sheet"

Optional for Session 1:

- a Polaroid or video camera to record pictures of the crime scene

The following items are optional, but are great for "spicing up" the crime scene:

- 1 guitar pick
- 1 pair of sunglasses
- 1 clip-on earring
- 1 package carpet tacks

Depending on the option you choose in Session 5, you may also need:

- paper
- a chalkboard and chalk

