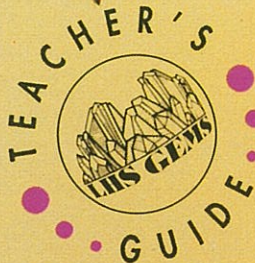
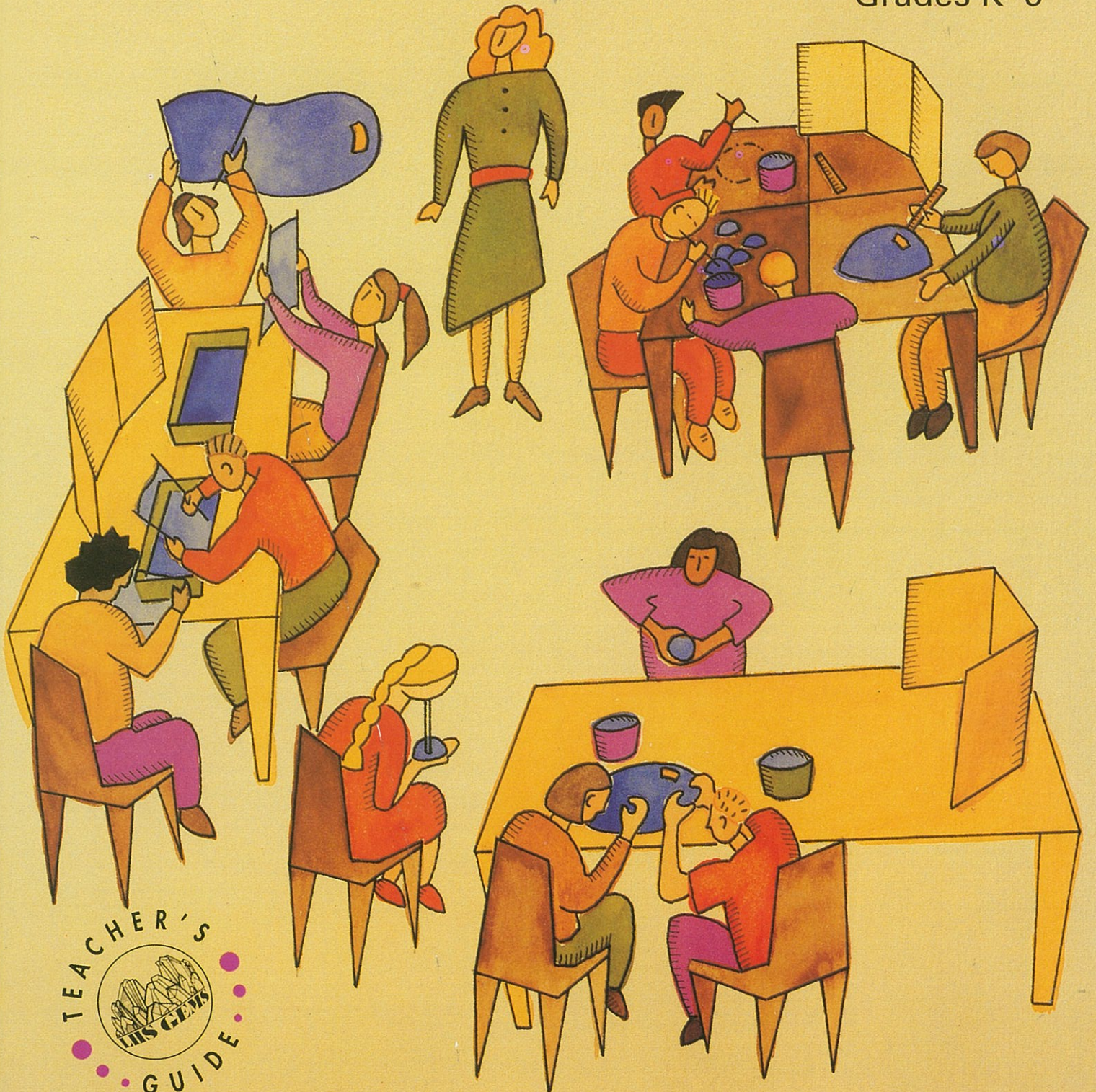


Bubble Festival

Grades K-6



Presenting Bubble Activities in a Learning Station Format

LAWRENCE HALL OF SCIENCE

UNIVERSITY OF CALIFORNIA AT BERKELEY

What You Need

For About 3 Sessions of a *Bubble Festival*

* Items with an asterisk are consumable and will need to be increased for more than approximately three sessions with one class of about 30 students. All other items on this list can be reused.

- ✓ lots of water*
- ✓ 2 one-quart containers of Dawn® dish-washing liquid*
- ✓ 2 cups glycerin (Glycerin is available at well-stocked pharmacies and scientific supply companies.)*
- ✓ 1 or 2 packages of paper towels*
- ✓ 150 drinking straws (Small diameter straws don't work well. Some teachers like non-clear straws as they are easier to keep track of. Clear straws enable you to actually see if a student who is having difficulty blowing bubbles is inhaling first, and thus breaking the soap film at the end of the straw.)*
- ✓ 2-4 five-gallon buckets for mixing bubble solution
- ✓ 1 empty one-gallon container
- ✓ 1 one- or two-cup capacity measure
- ✓ 3 or more squeegees (While you can get by with one squeegee, having multiple squeegees will enable you to have your students and/or parent volunteers quickly remove the soap solution from station surfaces, both during the *Bubble Festival* to reduce spills, and after the *Bubble Festival* to facilitate clean-up.)
- ✓ 1 plastic squirt bottle (an empty dish-washing liquid bottle works well)
- ✓ 8 cottage cheese-style containers about 16 oz. each
- ✓ 1 quart vinegar*
- ✓ 3 dish pans for clean-up drop cloths, butcher paper*, and/or a stack of newspaper* to absorb spills

✓ access to a laminator (Laminators are sometimes available at copy centers.) Lots of clear contact paper can be used to protect the signs from bubble solution, but a small amount of leakage will occur. A better method using two file folders, glue, and rubber cement, followed by lamination, is illustrated on page 38.

Optional

1 small rubber spatula

What You Need For One Station

✓ 1 or 2 cottage cheese containers

✓ A collection of standard and non-standard measuring equipment, (include enough items so that the students at your station each have at least two different tools to choose from at any time)

- Plastic-coated measuring tapes
- Metersticks, yardsticks or rulers that you don't mind getting wet
- Protractors
- About 50 unifix cubes (or other uniform, waterproof cubes —about 1 cm)
- Several pieces of string or yarn (about 1 yard or 1 meter long)
- Popsicle sticks
- Pencils
- Coffee stirrers

Optional

- Toothpicks
- Uniform-sized buttons
- Concentric rings
- Laminated circles of labeled diameters