# Tips for planning chemistry demos

## Step 1 / Determine your goals

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- What scientific concepts do you want to cover?
- Who is the audience (young kids, peers, general public)?
- Is this demo the most effective and safe way to teach the concept?

### Get the logistics in order

- Set a date and secure an appropriate location
- Check space for exits, emergency equipment, and adequate distance from audience (>10 feet)
- Order materials

#### Flammable Demos Checklist

#### Before demo, notify hosts, security, administrators, and fire department

- Handle flammable liquids safely
  - Collect only needed amounts from stock bottles before the demo

Plan safe transportation for people, supplies, and safety equipment
Assign tasks and perform a risk assessment

### **Step 3** / Practice the demo

- Write a detailed procedure the way it will be performed
- Review Safety Data Sheets, ACS hazard assessment tools, and past incidents to determine what could go wrong
- Figure out tactics to minimize risk
- Practice in front of a test audience

Find more safety information at acs.org/safety

Step 2



#### Don't forget!

- Keep 10 feet between demo and observers
- Encourage audience participation
- Warn audience of loud noises, potential

- Keep bottles capped and stored away
- Never add flammable liquids after ignition to avoid flame jetting
- Appoint a safety officer to follow all fire safety measures (e.g., personal protective equipment, fire extinguisher, fire blanket, safety shower)

