## CLASS ACTIVITY

## Cooking Up a Comet

Below is a really easy recipe to create a comet 15 cm in diameter. Your students can be excellent helpers. Call on them to assist with the demonstration.

## Ingredients

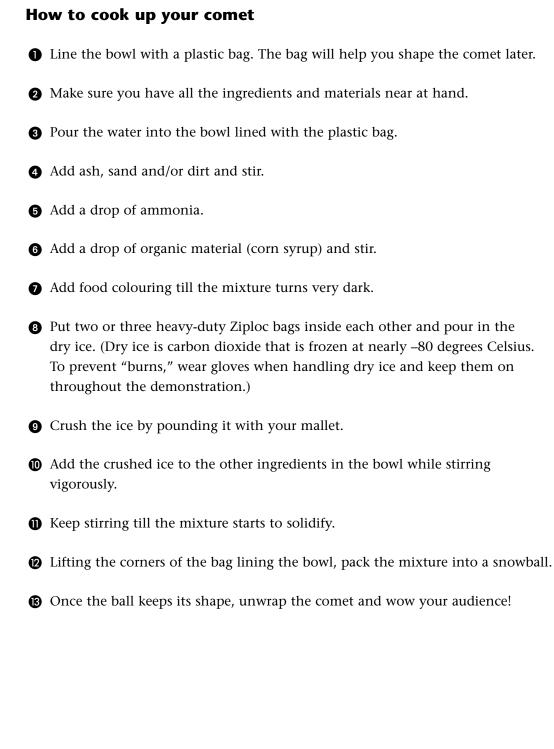
- ★ 500 mL of water
- ★ 500 mL of dry ice\* (solid carbon dioxide)
- \*You can find dry ice in most urban centres (look under "Ice" in the yellow pages of your phonebook). We suggest you buy dry ice in pellet or nugget form one day in advance so that it is more malleable the day of your demonstration. Wrap it in newspaper and store it in a cooler. Make sure the cooler is tightly sealed. Also make sure you have enough dry ice to do at least one test run before the demonstration. Remember that dry ice can quickly sublimate (change from a solid to a gas).
- ★ Two tablespoons of sand or dirt
- $\star$  A pinch of ash
- ★ A few drops of ammonia (use a glass cleaner like Windex)
- ★ A few drops of organic material (dark corn syrup, for example)
- $\star$  A few drops of food colouring (to turn the mixture very dark)

## Materials

- ★ A cooler
- ★ A large mixing bowl (plastic or metal, but not glass, which may break)
- $\star$  A plastic bag big enough to line the mixing bowl
- ★ A wooden spoon
- ★ Heavy work gloves
- ★ Two or three heavy-duty freezer bags (Ziploc)
- $\star$  A meat tenderizer or a rubber mallet
- ★ Paper towels









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