

Alcohol Concentration and Judgment

# Alcohol Concentration Demonstration

Supplies:

1. Large (1 gal.) clear container

2. Small ( ½ gal.) clear container

3. Red Dye or Food Color

4. Water

Instructions:

1. Fill each container with water.

2. Place the same amount of red dye into the two containers of water

In which will the dye be most concentrated?

The same concept holds true for different sized people

# How Depth Perception Varies

Supplies:

1. Small sheets of paper

2. Measurement of classroom length

3. Dry erase, chalkboard, overhead

Instructions:

**Part 1.**

Measure the length of the classroom before students arrive. Keep record of this.

**Part 2.**

1. Give each student a small piece of paper.
2. Have each student silently record the distance from the back of the room to the front.
3. Hand the sheets in.
4. Record the range of estimates on the board.
5. Display the correct answer.

This demonstrates the problems humans have in judging even when sober.

(In most classes, there will be at least a fifty per cent variation.)