

## **Solutions for DA**

The public prosecutor is beginning to worry. The jury needs to understand how the prime suspect made the murder weapon solution. The DA was never that great at science. He needs very clear, step by step instructions how to make solutions, from a solid and by diluting a stock solution. He will demonstrate how to make solutions while cross-examining the suspect. He has no access to chemicals, so he must show the jury with Kool-Aid.

You must show calculations and write procedures before you may go to lab. For safety reason, DO NOT Taste Test any of your solutions.

*First, we must make a stock solution from a solid. Make 150 mL of a .90 M solution of Kool-Aid. Kool-Aid is essential sugar,  $C_6H_{12}O_6$ .*

Calculations:

Step-by Step Procedure:

*By diluting the .90 M stock solution, make 100.0 mL of a .10 M solution.*

Calculations:

Step-by Step Procedure:

*By diluting the .90M stock solution, make 100.0 mL of a .05 M solution.*

Calculations:

Step-by Step Procedure:

Come show your instructor, then you may go to lab to make your solutions. Save all three solutions and show your instructor when you are done.