Chemist:	Date:	Class:
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## **Preparing Solutions**

• Discuss the steps in preparing a solution

## Vocabulary

- aqueous solution
- dilution

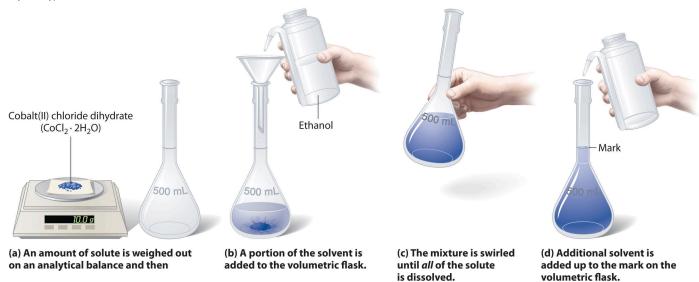
- solute
- solution

- solvent
- stock solution

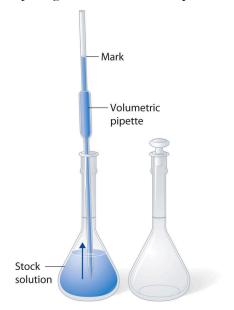
Equation(s) to Know

$$M_1V_1 = M_2V_2$$

## Preparing a solution with a solid solute



## Preparing a solution with a liquid solute



(a) A volume  $(V_s)$  containing the desired moles of solute  $(M_s)$  is measured from a stock solution of known concentration.



(b) The measured volume of stock solution is transferred to a second volumetric flask.



(c) The measured volume in the second flask is then diluted with solvent up to the volumetric mark  $[(V_s)(M_s) = (V_d)(M_d)]$ .