

Biomedical Laboratory **Science – Sample Skill Scenario**

Competitor Scenario 1:

You are working at the HOSA Laboratory and are to prepare 100 mL of 0.5M NaCl solution. You have 5M NaCl solution.

Skill to be performed:

Skill VII: Preparing a Laboratory Solution

Time - 7 minutes

Judge Script:

- Step 1: Give point for doing the math now
- Step 4: Award points if the competitor selects the correct equipment for preparing the solution.
- Step 4g: Judge verifies the correct measure.
- Step 5: Labeled cleaning solution available in “storage” area. Any equipment not used returned to storage area.

Solution: $5M \times V1 = 0.5M \times 100mL$

$V1 = (0.5M \times 100mL) / 5M$

$V1 = 50mL / 5$

$V1 = 10 mL$

Add 10mL of 5M NaCl to a container and bring the volume to 100mL with water.