

Activity 31: The Dilution Equation

Learning Objectives

Use the dilution equation to prepare a dilute solution from a more concentrated stock solution

Estimated Completion Time 45 Minutes

Instructor Information

Students should also be able to explain how they would prepare solutions versus merely arriving at a numerical answer.

ANSWERS TO QUESTIONS

1. a. 12.5% (m/v) b. 3.13% (m/v)
2. 0.3% (m/v)
3. Dilute 100 mL of the 25% stock solution to a final volume of 500 mL to produce 500 mL of the 5% solution.

Activity 31: Skill Development

1. 20 mL of the diluted solution
2. 6 L
3. 10 L
4. 3 % (m/v)