

# PRACTICAL SCIENCE EXAM SECONDARY 4

## Lab worksheet

Name: \_\_\_\_\_

### Identifying Unknown Solutions

1. Objective: to identify the properties of unknown solutions
2. Safety: goggles
3. Materials:
  - a. Four beakers each of 50 mL of an unidentified solution, and each labeled only as beaker 1, 2, 3 and 4.
  - b. Blue and red litmus paper, pH paper, pipettes, tweezers, plastic test trays, conductivity tester, distilled water rinse bottle
4. Procedure:
  - a. Test each solution for acidity, alkalinity and conductivity.
  - b. Record results in box below

	Solution 1 <sup>100</sup> <sub>mL</sub>	Solution 2 <sup>150</sup> <sub>mL</sub>	Solution 3 <sup>250</sup> <sub>mL</sub>	Solution 4 <sup>400</sup> <sub>mL</sub>
Litmus paper test				
pH test				
Conductivity test				
Identified solution				

5. JUSTIFY, using scientific terms, your conclusions for:

solution 1 = 100  
mL

solution 2 = 150  
mL

solution 3 = 250  
mL

solution 4 = 400  
mL