

8. Fill one cup to its mark with cold water. Fill the other two cups to their marks with hot water. Measure and record their temperatures.

Temperature of cold water = _____ °C

Temperature of hot water (cup 1) = _____ °C

Temperature of hot water (cup 2) = _____ °C

9. What will be the temperature when all three cups of water are mixed in one container? Record your prediction.

Predicted temperature of mixture = _____ °C

10. Pour the three cups of water into the liter container, stir the mixture, and measure and record its temperature.

Actual temperature of mixture = _____ °C

11. How did your observation compare with your prediction?

12. Which of the water samples (cold or hot) changed more when it became part of the mixture? Why do you think this happened?

13. Pour the mixture into the sink or waste pail. Do not pour it back into the pail of either cold or hot water!

14. Fill one cup to its mark with hot water. Fill the other two cups to Reverse their marks with cold water. Measure and record their temperatures.

Temperature of hot water = _____ °C

Temperature of cold water (cup 1) = _____ °C

Temperature of cold water (cup 2) = _____ °C

15. Record your prediction of the temperature when these three Predict cups of water are mixed in one container.

Predicted temperature of mixture = _____ °C

16. Pour the three cups of water into the liter container, stir the mixture, and measure and record its temperature.

Actual temperature of mixture = _____ °C

17. How did this observation compare with your prediction?

18. Which of the water samples (cold or hot) changed more when it became part of the mixture? Why do you think this happened?