



Calorimetry and thermometry set

SCN-F003B

Function

Intended for experimental study, physics laboratory, chemistry laboratory, carrying out experiments on: Thermodynamics, Calorimetry. The water equivalent and heat capacity of a calorimeter. What is a calorimeter used for? What is the water equivalent of a calorimeter. What is heat. Energy balancing, principle of heat exchange. Measuring the temperature of the empty calorimeter. Measuring the temperature and determining the mass of cold water. Measuring temperature and determining the mass of hot water. Measuring the final temperature, thermal equilibrium temperature. Determining the water equivalent of the calorimeter. Determining the heat capacity of the calorimeter. The specific heat of aluminum. Specific heat. Measuring the temperature and determining the mass of cold water. Measuring the temperature of the solid specimen and knowing its mass. Measuring the final temperature, thermal equilibrium temperature. Using conservation of energy and the principle of heat exchange. Determining the specific heat of aluminum. Determination of the specific heat of steel. Measuring the temperature and determining the mass of cold water. Measuring the temperature of the solid specimen and knowing its mass. Measuring the final temperature, thermal equilibrium temperature. Using conservation of energy and the principle of heat exchange. Determining the specific heat of steel. The body's ability to store energy in relation to heating time, mass, and volume of a material. The relationship between the heating time and the mass of the same material. At the same temperature, equal volumes of different materials store different amounts of heat. Zeroth Law of Thermodynamics. Measuring the final temperature, thermal equilibrium temperature of heated

aluminum and room temperature water. Measuring the final temperature, thermal equilibrium temperature of heated steel and room temperature water. Thermometry. Thermoscope. The difference between thermoscope and thermometer.

Knowledge areas

Physics - Chemistry - Compact Kits

Level

High school

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