

Calorimetry and thermometry set

SCN-F003E

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: the water equivalent and heat capacity of a calorimeter, what a calorimeter is for, what is the water equivalent of a calorimeter, what is heat, energy balancing, principle of heat exchange, how to convert the volume unit (mL) of water to the mass unit (gram), measuring temperatures, measuring the final temperature (thermal equilibrium temperature), determining water equivalent and the heat capacity of the calorimeter, specific heat (mass heat capacity) of aluminum, determining the specific heat of aluminum, determining the specific heat of steel, latent heat of melting ice, latent heat, determining the mass of ice by difference, determining the heat latent melting of ice, the ability of the body to store energy in relation to heating time, mass and volume of a material, the relationship of heating time to mass of the same material at the same temperature, equal volumes of different materials store different amounts of heat, the zeroth law of thermodynamics, the thermoscope, the difference between thermoscope and thermometer, temperatures of the boiling point of water and the melting point of ice, vaporizing, boiling and heating water, measuring the boiling point of water, measuring the melting point of ice, etc.

Knowledge areas

Physics - Chemistry - Compact Kits

Level

Graduation - High school

