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Heat, air and water! As everyone knows who has waited for the tea-kettle to boil, it takes a lot of heat to raise the temperature of water even one degree. In fact, more heat is required to warm a given mass of water than for any other common substance. Copper, of which the tea-kettle may have been made, takes much less: one pound of copper is raised one degree with only one-eleventh as much heat as it takes to raise one pound of water one degree. Air takes about one-quarter as much as water. As an illustration, a room 10 by 10 by 6 feet contains about 64 pounds of air. It takes about as much heat energy to raise one cubic foot of water one degree as it does to raise all the air in this fair size room one degree.
