

## CHAPTER VI.

Examination of Sufficiency of Ventilation—Measurement of Cubic Air Space—Calculation and Measurement of Outflow and Entrance of Air—The Aerometer—The Manometer—Examination of the Condition of the Air by the Senses—Simple Chemical Tests—Accurate Chemical Tests—The Thermometer: Plea for greater attention to it—Hygrometers—Microscopic Examination .....	PAGE 65
---	------------

## CHAPTER VII.

CLIMATOLOGY: Latitude—Altitude—Influence of Temperature—Hints regarding Sunlight—Its Action on Plants and Animals—Humidity—West Coast of Africa—Malaria—Laws relating to Bodies of Water—Location and Soil for School-houses—Hygienic Influence of Soils—Their Chemical and Mechanical Character—Slope, etc.—Marshes—Effects of Air in Soils—"Made Soils"—Humidity of Soils—Ground-water—Relative Powers of Soils for Absorbing, Retaining and Radiating Heat—Influences of Vegetation—And of Winds—Ozone—Health Resorts of Canada and other Countries .....	74
--	----

## CHAPTER VIII.

DISPOSAL OF REFUSE: Nature of the Substances of which the Refuse of Households and Communities consists—Effects of Non-removal or Improper Removal: Pollution of Soil; Pollution of Air; Pollution of Water—Points to be secured in the Disposal of Sewage: To remove all Waste Products liable to Decompose or give off Disease Germs; to remove them completely before they can Decompose; Proper Outfall; Proper Ventilation of Drains—Examples of Violations of the above Principles: Storage of Masses of Filth in Yards and Domestic Conveniences; Wavy, Broken and Leaky Drains; Rats working through Drains; Pollution of Streams and Bays; Methods by which Sewer Gas escapes into Houses; Emptying of Traps by Suction; Forcing of Traps; Evaporation of their Contents; Sewer Gas Exhaled through Manholes and Gullies; Pollution of Drinking Water through Drain and Closet connections; Pollution of Wells through Soil—Burning of Kitchen Refuse and other similar Waste Material .....	88
---	----

## CHAPTER IX.

Dry Methods of Disposal: Hull Ash-Closet System; Dry-Earth Systems; Rochdale Pail-System—Water-Carriage System: Preliminary Considerations regarding Area, Population, Geological Structure, Rainfall, Water Supply, Outfall—Construction of Drains: Nature of Materials; Shape; Foundations; Joints; Junctions; Fall; Flushing; Ventilation of Drains; Different kinds of Traps; Uselessness of Traps without Vents—Latrines, Closets, and other Conveniences—Intercepting Tanks and Cess-pools—Intercepting-Sewers—Ultimate Disposal of Liquid Refuse: Sewage Farms; Intermittent Filtration; Irrigation; Precipitation; Pneumatic Systems—Duties of Trustees and Teachers in regard to the Subject of this Chapter; Ill Effects of Neglect .....	96
---	----