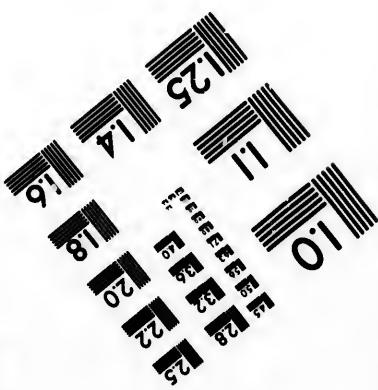
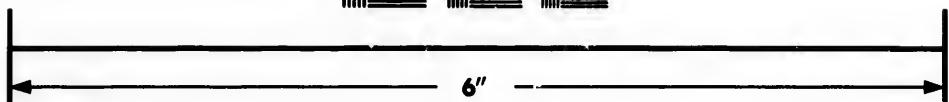
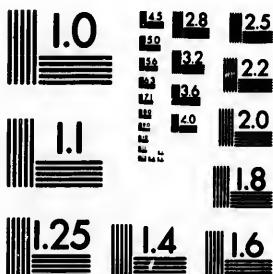


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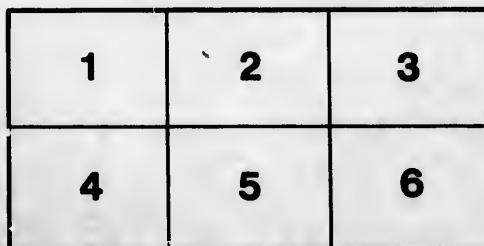
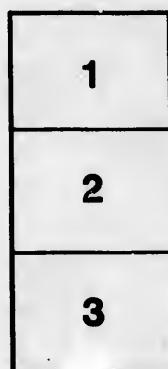
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The nature and advantages of the study of Physical Science.—The Province of Natural Philosophy and divisions of the Subject.—Matter, its Properties and States of Aggregation.—Attraction.—Gravitation.—Centre of Gravity.—Motion, its Forms.—Laws.—Reflection.—Resolution and Composition.—Friction.—Momentum and Velocity.—Vibration.—Pendulum, &c.

March 6.—Second Lecture, “Heat, its proximate Causes and Effects.”

Heat, different Theories and proximate Causes.—Expansion.—Incandescence.—Combustion.—Ebullition.—Evaporation.—Congelation.—Radiation.—Absorption.—Reflection.—Refraction and Transmission.—Thermometers, Graduation and different Scales.—Capacity for Heat, Specific and Latent.—Calorie of Fluidity—and Elasticity.

March 13.—Third Lecture, "Air and Atmospheric Phenomena."

Air, its Composition, Extent, Elasticity.—Marriotto's Law.—Pressure.—Temperature and Humidity.—Barometers, Construction and Use.—Pumps.—Air Guns.—Balloons and Diving Bells.—Winds, their Causes, Force, and Velocity.—Trade Winds.—Monsoons.—Simoons.—Whirlwinds.—Hurricanes and Calms.

March 20.—Fourth Lecture, "Water and Aqueous Phenomena."

Water, its Physical Condition, Amount, different degrees of Purity.—Its Pressure equal in every direction, and in proportion to its depth.—The "Paradox" and Hydraulic Press.—Water seeks its Level.—Aqueducts.—Canals.—Specific Gravity of Solids.—Liquids.—Gases.—Hydrometers.—Springs.—Artesian Wells.—Rain, distribution and Amount.—Rainy Seasons.—Rainy and Rainless Regions.—Fogs.—Clouds.—Dew.—Hoarfrost, and Snow.

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