

TESTO: Sergio Bolognini. Berkeley C. Barber, Kieran O'Malley, *Career Paths in technology*, Pearson

UNIT 1: ELECTRICAL ENERGY

Electricity and current
Conductors and insulators
Battery and voltage
Types of battery
How the battery was invented
Superconductors and semiconductors

UNIT 2: ELECTRIC CIRCUITS

A simple circuit
Current, voltage and resistance
How electrifying-Edison changed the world
Measuring tools: the multimeter and the oscilloscope
Working with electricity: effects on human body
New ways of lighting

UNIT 3: ELECTROMAGNETISM AND MOTORS

Electricity and magnetism
The electric motor
Electric cars
A short history of electric transport

UNIT 4: GENERATING ELECTRICITY

Methods of producing electricity
The generator
Fossil fuel power station
Nuclear power station
Renewable energy 1: water and wind
Renewable energy 2: sun and earth

CITIZENSHIP – EDUCAZIONE CIVICA

The problem of e-waste
Lezione sul 'bullismo' a cura dei Proff. Sylvie Manca e Andrea Maulu

ORISTANO, 12/06/2025

Prof. Antonio G. Scano