

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***

Facing climate change  
Advantages and disadvantages of renewables

ORISTANO, 12/06/2024

Prof. Antonio G. Scano

