

### **MODULE 1 – Environment**

**Book 1 pages from 40 to 61:** The Heat is on, Disrupted Ecosystems, The world's rubbish dump, overpopulation, Global Warming and The Gulf Stream, Cities at Risk, Are Species trying to outrun Global Warming, Renewable Energy and your Home, Pay the Carbon Tax, Let's not waste Water, Recycling.

#### **Online documents and shots:**

Di Caprio's Speech, Environment, Donald Trump's Policy, Paris Agreement Summary, Heatwaves, 2017 United Nations Climate Change Conference,

**Film:** Before the Flood

### **MODULE 2 – Renewables**

**Book 2 pages 50, 53, 54, 56, 57, 59 :** Methods of producing Electricity, the Generator, Fossil Fuel Power station, Fracking, Nuclear Power Station, Renewable Energy (from Water, Wind, Sun, Geothermal, Biomass, Biofuel)

#### **Online documents and shots:**

Renewables, Gulf Stream, E-Waste, Waste, Consumerism, Waste management, Nuclear accidents (Chernobyl, Fukushima), Travelling and Pollution, Ecotourism,

Ppt on Water

**Film:** The Day after tomorrow

### **MODULE 3 – Technical module: Electrical Energy, Electricity, Safety, Electrical Applications**

**Book 2 pages from 8 to 10:** Atoms and Electrons, Conductors and Insulators

**pages 16,17, 18, 19, 20, 22, 23, 24, 25, 28, 31, 32, 33, 34:** The fuel Cell, Superconductors, The Car body working as a Battery, Electrical Fitness, A simple Circuit, Types of Circuit, Current, Voltage and Resistance, Measuring Tools, New Ways of Lighting, Energy saving Home, Turning off Standby Power, Working with Electricity.

**pages from 36 to 46:** Electricity and Magnetism, Applications of Electromagnetism, The Electric Motor, Types of Electric Motors, Electric cars, Maintenance, Electric Cars: Advantages and Disadvantages, Maglev, The Jaguar Supercar

Ppt on Safety

#### **Online documents and shots**

**Video:** Indoor electric safety, Electric safety

### **MODULE 4 – Tips on how to write useful Documents or cope with professional Moments**

**Book 2 pages from 268 to 274 and 278, 279 :** CVs, Cover Letters, Job Interviews, 21<sup>st</sup> Century Skills, Report Making, Presentation Making