

Istituto Paritario “*Sandro Pertini*”

LINGUA INGLESE

PROGRAMMA CLASSE IV meccanica

Modulo 1 Energy and Energy sources

What is mechanical technology

What is energy

Alternative energy

How electricity is produced

Energy sources: oil

Energy sources: wind power

Solar energy

Nuclear power

Energy in developing countries

The greenhouse effect

Natural gas

Grammar focus: Present Simple vs Continuous

Modulo 2: Materials

Main properties of materials

Chemical properties

Mechanical properties

Thermal properties

Electrical properties

Environmental properties

Materials

Ferrous materials

Non ferrous materials

Plastics

Ceramics

Composites

Electrical materials

Grammar focus: Past Simple vs Continuous

Modulo 3: Machine Tools

Cutting materials

Cermet

Nanotechnology

Machine tools: the use

Cutting tools

Milling

Types of milling machines

Milling problems

Grinding machines

The central lathe

Boring machines

Shapes and planers

Deilling machines

Press brakes

Grammar focus: Present Perfect Simple vs Continuous

Modulo 4: Metal Process

What is metal working

Hot forming process

Die casting

Sand casting

Plaster casting

Investment casting

Centrifugal

Continuous casting

Extrusion

Forging power metal process

Cold forming

Welding

Soldering

Blazing

Sheet metal processing

Grammar focus: Future Forms