

Istituto Tecnico Industriale Statale "Othoca" - A.S. 2023-24
CLASSE: 4^B PROGRAMMA DI: INGLESE / EDUCAZIONE CIVICA
DOCENTE: Mariangela Mura

MATERIALI: Testo in adozione: **Mechatronix** (Giovanna Battistini-Elisa Cavalli, casa editrice Trinity Whitebridge) e fotocopie fornite dall'insegnante.

PROGRAMMA SVOLTO

INGLESE:

SAFETY:

Safety in the workshop: key vocabulary, word formation and definition; objects used in the workshop; identifying mistakes in a workshop; safety inspector visit;

Workplace hazards and the most common dangers in the workplace; safety signs (colours, symbols, shape and pictograms) and types (mandatory, emergency and rescue, information signs);

PPE (definition, purposes, types - wearing the proper protective clothing and equipment - correct/incorrect clothing);

The Top 5 types of Workplace hazards (definition, from chemicals and fire); hazards and risks;

Safety rules when welding (protective clothing and risks); safety rules using ladders; accident report;

Dangers at home: accidents, causes and people involved, how to minimize risks; is your house a safe place?

Safety and the EU (EU-OSHA and Napo animates films).

ENGINEERING MATERIALS:

Materials contained in a washing machine;

Classification and main types of materials, properties of materials; mechanical properties;

Steels and steel-making (steps in the production steel), the steel-making furnace;

The account of an experiment using two bars of steel with different carbon contents;

Plastics: plastics pollution and production; thermosetting and thermoplastics; bioplastics.

ENERGY / ENVIRONMENTAL ISSUES:

Definition of energy, different forms, energy 'production';

The History of energy: key moments in human history, different types of energy, inventions and discoveries.

Non-renewable energy sources (pros and cons of fossil fuels); alternative energy sources: definition, examples; pros and cons.

EDUCAZIONE CIVICA:

Tematiche affrontate: **la sicurezza sul posto di lavoro** – rischi e pericoli, infortuni e morti; l'importanza del rispetto delle norme e della prevenzione; la legislazione italiana; **la mancanza di tutele sul posto di lavoro** (gig economy and job insecurity).

Testo: **No one has to die at work** (workplace fatalities – articolo del quotidiano inglese *The Guardian*);

Film in lingua inglese e scheda di lavoro in fotocopia: **Sorry we missed you**.

La docente: *Mariangela Mura*

ORISTANO, 13.06.2024