

## **PROGRAMMA SVOLTO**

**ANNO SCOLASTICO 2023/2024**

**CLASSE: 5C Indirizzo: Meccanica ed Energia**

**LIBRI DI TESTO: Sharman, Identity, B1 to B1+, Oxford University Press**

**Maria Letizia Faggiani, Margherita Robba, New Mechways, Edisco**

### **Contenuti**

#### **Identity, B1 to B1+,**

##### **Unit 8**

Talking about holidays and travelling.

Talking about hypothetical situations.

Talking about past abilities.

##### **Unit 9**

Talking about historical events - Freedom fighters: breaking the law to change the world? - Mohandas Gandhi, Rosa Parks and Nelson Mandela.

### **New Mechways**

#### **Module 1 Getting started**

##### **Unit 1 Some historical notes**

- First steps in metalworking
- From iron to steel
- The Industrial revolution
- The second Industrial Revolution: how things evolved

##### **Unit 2 Energy sources**

- Hydroelectric power plants
- Thermoelectric plants
- Nuclear power plants
- Alternative energies

#### **Module 2 Materials**

##### **Unit 1 Properties of materials**

- Mechanical properties of materials.
- Loads and stresses.

##### **Unit 2 Metals**

- Metals: General characteristics.
- Ferrous metals
- What is steel?
- What is steel used for?

#### **Module 3 Shaping materials**

##### **Unit 2 Material Removal Processes**

- Introduction to machine tools.
- Turning: Modes of use/types of metal lathes/parts of a lathe.
- Drilling: Models, possible operations, types of drilling machines.

## **EDUCAZIONE CIVICA**

### **Testo di riferimento:**

**THE SPIRIT OF THE TIME: Alessandra Brunetti, Manuela Zaini, Peter Lynch**

**“Human Rights - Champions of Rights”:**

**“ Give those women the vote!” Emmeline Pankhurst.**

**“ In the name of equality and freedom for all!” Nelson Mandela.**

**“I have a dream today!” Martin Luther King.**

**“I won’t stand up!” Rosa Parks.**

**Cagliari, 11/06/2024**

**La Docente**

*Alessandra Fanciulli*

