

**Istituto di Istruzione Superiore “D. Scano- O. Bacareda” - Cagliari**  
**Anno Scolastico 2024-2025**

**Programma di Lingua Inglese**  
**Prof.ssa Marongiu Annalisa**

**CLASSE 4° A CAT CAGLIARI**

Dal testo “**Building Horizons**” di **Cinzia Medaglia e Martin Seiffarth**, Casa Editrice Loescher.

Dopo l'accertamento della situazione di partenza, si è stabilito di procedere alla revisione di tutte le strutture e funzioni linguistiche necessarie e, senza le quali, sarebbe impossibile affrontare i contenuti del programma stabilito,

**UNIT 1: ENVIRONMENTAL CHALLENGES**

- Main environmental concerns:** Global warming and climate change
- **Traditional and modern forms of pollution:** causes and consequences
- Life in water:** Polluted water, Water and construction
- Life on land:** Air pollution, Land pollution
- New energy sources:** Non-renewable and renewable energy sources

**UNIT 2: BUILDING MATERIALS**

- Natural materials**
  - Timber:** advantages and disadvantages
  - Stone:** advantages and disadvantages
- Alternative natural materials:** Clay, Cork, Fabric
- Man-made materials**
  - Brick:** advantages and disadvantages
- Other man-made materials**
  - Steel:** Nowadays and in the past - Alloy steel
  - Plastic:** Impact on the environment - Advantages and disadvantages - Types of plastic: PVC, Polyurethane, Acrylic plastic, Polycarbonate, Polypropylene
- Eco-friendly materials:** Environmentally friendly - Recycled materials - Absorbing pollution

**UNIT 5: BUILDING SYSTEMS**

- The plumbing system:** water supply, gas plumbing, cold and hot water, drinking water and heats pumps
- The electrical system:** Electrical circuit, Safety measures, Power sockets and plugs, Differences between countries
- Heating:** Types of heating: water-based system, warm air system
- Solar heating:** solar panels and photovoltaic panels
- Cooling:** Air conditioning and Comfort cooling

**HISTORY OF ARCHITECTURE**

- Prehistoric architecture:** Menhirs, dolmens and cromlechs, Stonehenge
- Egyptian Pyramids:** a man-made marvel, what they were, the materials they used, how they were built.
- **Skyscrapers:** in the present and in the past, why were they built, inventions which made them possible
- **The ESB**