

Istituto di Istruzione Superiore “D. Scano- O. Bacaredda” - Cagliari
Anno Scolastico 2025-2026

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
- Glass:** What is glass? – Nowadays – Energy efficiency
- 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 - 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**
- **Chicago School of Architecture:** After the Great Chicago Fire - A city which set a trend – New structures for high buildings.