

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

Programma di Lingua Inglese

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CLASSE 5° A CAT CAGLIARI

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

MODULE 4: BUILDING ELEMENTS

Foundations: Shallow and deep foundations – Aspects to take into consideration: Scour, Frost heave.

Walls: Main types of walls: load bearing, non-load bearing – Inside the wall – Insulation of walls.

Floor: Parts of a floor – Materials used

Stairs: Types of stairs: Spiral, Straight, Circular, Return, “L” Stairs – Materials used – Parts of a stair

Roofs: Purpose – Types of roofs – Roof materials

Barrier removal: The most common barriers in buildings – Possible solutions to remove barriers

MODULE 7: PUBLIC WORKS

Roads. Roads in the past and the birth of modern roads – Constructing a road

Tunnels: Functions – Types of tunnels – Building a tunnel – “Green Tunnels”

Bridges: Function – Types of bridges - Types of bridges: Beam, Cantilever, Arch, Suspension, Movable, Double-Decker

The Golden Gate Bridge: design and main structural characteristics

Power point of a bridge chosen by the student.

MODULE 8: ON THE BUILDING SITE

Health and safety: Causes of accidents - Possible solutions - The PPE - Safety measures in Work platforms and scaffolds

Safety Signs: Prohibitory, Mandatory and Warning signs

Safety legislation in Italy and the UK

Safety in Italy: Decree 81/ 2008: Key points - RSPP and RLS - The DVR

Safety in the United Kingdom: CDM 2015 – Formal requirements – Additional requirements

HISTORY OF ARCHITECTURE

American Modernism

Frank Lloyd Wright: Life and work, The organic architecture

Frank Lloyd Wright: The Prairie School – The Usonian Style – Goetsch Winckler House
- The Fallingwater House

Antoni Gaudi: Life and work – Casa Batllò - The Sagrada Familia

Renzo Piano: Life and work, The Pompidou Centre