

Istituto di Istruzione Superiore "D. Scano" - Cagliari  
Anno Scolastico 2022-2023

Programma di Lingua Inglese  
Classe 5° A  
Prof.ssa Marongiu Annalisa

TESTO: "From the Ground up" di Paola Tite e Silvana Sardi , Casa Editrice ELI.

## MODULE 6: BUILDING AND THE BUILDING SITE

**Foundations:** Shallow and deep foundations - Related problems: Scour, Frost heave, Expansive clay, Permafrost.

**Walls:** load bearing, non-load bearing and retaining walls - Main requirements

### **The Berlin Wall**

**Stairs:** Spiral, Straight, Circular, Return, "L" Stairs - Design

**Floors:** Carpets, Hardwood floor, Ceramic tiles, Laminate, Stone floor

**Roofs:** Cut and Fixed Roofs - Main steps in building a roof

**Home automation: Domotics: intelligent technology**

## SAFETY IN THE WORKPLACE

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

**Safety Signs:** Prohibitory, Mandatory and Warning signs

### **Law 626/ 1994**

**Decree 81/ 2008:** Key points - RSPP and RLS - The DVR

Safety: The European framework (photocopy)

**Directive 89/391/EEC:** What the Directive establishes - After the first European Directive

## MODULE 8: BUILDING PUBLIC WORKS

**Bridges:** Beam, Cantilever, Arch, Suspension, Movable, Double-Decker

**The Golden Gate Bridge:** design and main structural characteristics

### **The Tower Bridge**

**Characteristics of a bridge chosen by the student**

## BUILDING CULTURE: A Short History of Architecture

**Frank Lloyd Wright:** Life and work, The organic architecture

The Falling Water House, The Guggenheim Museum

**Renzo Piano:** Life and work, The Pompidou Centre