

## **CLASSE 5 D     Indirizzo GEOMETRI**

### **LINGUA INGLESE –**

**Docente prof.ssa Francesca Sitia**

Libro di testo: Patrizia Caruzzo con Silvana SARDI e Daniela CERRONI, "From the Ground Up", Construction, Edizioni ELI

#### **Module 0: Revision**

Bio-architecture  
Eco-materials  
Green building

#### **Module 1: Building materials**

Stone, Granite, Travertine  
Timber (advantages and disadvantages)  
Preservation and restoration of wood  
Brick  
Cement  
Steel and aluminum  
Plastics  
Sustainable materials  
Reclaimed building materials

#### **Module 2: Surveying and Design**

Surveying  
New surveying instruments  
Sketch stage and working drawings  
CAD, Rendering

#### **Module 3: Building and safety**

British and American houses  
A brief history of skyscrapers  
The Empire State Building  
Italian houses  
Foundations  
Walls  
Floors  
Stairs  
Roof  
Thatching  
Health and safety  
What to wear on the building site

#### **Module 4: Building Public Works**

Roads  
Bridges

The Golden Gate Bridge  
Tunnels

**Module 5: Building culture**

The modern Movement

Le Corbusier

Frank Lloyd Wright

Richard Rogers

Norman Forster

Frank Gehry

Renzo Piano

Gaudi'