

**ISTITUTO ISTRUZIONE SUPERIORE “G. CIGNA – G. BARUFFI – F. GARELLI”**  
**ISTITUTO TECNICO SETTORE TECNOLOGICO – COSTRUZIONI AMBIENTE TERRITORIO**  
**ANNO SCOLASTICO 2023-2024**  
**PROGRAMMA SVOLTO**

*Materia:* **Lingua INGLESE**

*Ore Settimanali:* 3

*Classe:* **4<sup>A</sup> CAT**

*Insegnante:* **FERRUA ALESSANDRO**

**DAL TESTO, AA. VV, On Site Construction, Focus on ESP, Casa Editrice ELI, 2020.**

**Programma svolto tratto dal registro Argo**

<b>Attività svolta</b>
Conoscenza della classe conversation about a movie or series watched in summer; programmato interrogazioni per i libri dell'estate. Introduction of topics which we shall study this year.
building materials natural Wood, timber, lumber, log frame constructions, Stones, sedimentary rocks, limestone and sandstones metamorphic Rocks slate, soapstone, gneiss magmatic rocks: marble granite basalt. softwood and hardwood; wood seasoning methods,
oral rests, fabric structures, thatch, mud and clay. eco friendly materials: straw bales rammed earth, adobe.
wood in construction, seasoning, timber lumber, log-frame, light timber frame construction, on Classroom, bricks blocks advantages disadvantages, cement, mortar types: grey mortar, white mortar; concrete types: Reinforced concrete, pre-cast concrete prestressed Concrete, Cast on site Concrete, RAAC Reinforced autoclaved Aerated Concrete Modules; <a href="https://www.youtube.com/watch?v=hGWuncNAUWU">https://www.youtube.com/watch?v=hGWuncNAUWU</a> .
revise and make / organize your own technical vocabulary list; some suggestions
Bricks types, Glass, glass types, curtain walls, Plastics
plastics pros and cons, main uses, types. introduction to eco-friendly materials rammed earth.
Revision of Eco-Friendly materials advantages and disadvantages of Rammed Earth and Straw Bales.
Bamboo and Adobe; Eco Bricks a project to recycle plastic bottles and plastic litter in general in the UK
British houses types; the mansion, detached house: advantages and disadvantages; semi-detached house aka mirrored houses, advantages and disadvantages (on Classroom)

<b>Attività svolta</b>
Sustainable Building materials, Topic about citizenship (educazione civica)
Module 4 Surveying and Design.: -2-3. American Houses; Ranches and Cottages a comparison; Blocks of Houses; features; and structure; Skyscrapers; features and examples; The Gherkin and the Shard. The penthouse; the Bungalow; features; Skyscrapers history.
Measuring and Design Tools: -4-2 Building elements: The function of a Building; introduction to Building elements; Foundations types; Floorings; Wall types (partition Walls, Cavity and Solid Wall Insulation); Foundations types; Shallow foundations; Deep Foundations; (Works needed to establish what type of foundation to use: Soil samples and bedrock);
Measuring and Design Tools: -4-2 Building elements: Foundations types; Wall Types and functions; Floorings; Staircase Types;
Modulo: Module 3 Building Materials: Natural building materials: features; uses, pros and Cons. Man-made building materials: Natural building materials: features; uses, pros and Cons. Lexical collocations - 1-2. Natural building materials: Wood, soft wood; hard wood; Timber, Lumber, Log wood; timber frame, log frame, platform framing; balloon Framing; Fabric Thatch; Mud and Clay.
confusing Verbs: Fare: Make Do have, and their collocations
Doors; Georgian Houses in the UK and Dublin; parts of Georgian doors: lexis related with this type of houses. Building elements: Foundations types; Wall Types and functions; Floorings; Staircase Types; Roofing Types, Beams, and Pillars: their structures, and elements. Windows; Doors; Vocabulary and lexical collocations. Properties of Straw-bales; Rammed-earth; Adobe; Bamboo; Reclaimed Materials; Cork panels; Eco- bricks
what to wear on the building site PPE/DPI; overalls; helmet; goggles, headset, earplugs; steel-toe boots; protective gloves; lashings; Signs: prohibition, warning and advisory their colour and meanings

<b>Attività svolta</b>
vocabulary ex pp. 112, 115, 116, 117 reading p 118 3d printed dream home
Lab Activity: architecture history (Rinascimento Style, in Europe and in The UK: main differences and vocabulary: Palladian Style, English Style: main differences); Baroque Architecture in the UK: A short Span of time.
Reading p. 188; project about a 3d printed detached house: summarise the main ideas. Invalsi Exercise 1 Listening exercise 2 p. 189.
recupero curricolare in itinere: Revision of Eco-friendly building elements foundations; walls
home systems pp.126-28
electrical systems p.128 heating systems p.129
B2 first for schools Use of English exercises: key word sentence transformation
solar heating systems; fotovoltaic system: main items, ventilation system: three types; air conditioning systems.
geothermal system on Classroom

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<b>Attività svolta</b>
technical report a house and its main parts introduction, plan description elevation and section, conclusion.
Air Conditioning System: Advantages and Disadvantages.
Exercises on word formation; collocations: adjectives: word order; revision of comparatives and superlatives of adjectives.
Difference between confusing adjectives; Tall, high; short, little; exercises on copies and from the Internet
attività di recupero curricolare in itinere: confusing Adjectives good / well; far /farther/further; old/ older/the elderly; exercises
Educazione civica: Module 1: pp.16, 20,21-23. Smart systems and Smart Cities projects : the role of AI and Domotics applied in smart cities. <a href="https://youtu.be/2b7uMJkvS0c">https://youtu.be/2b7uMJkvS0c</a> ; <a href="https://youtu.be/zOOwEaNKUdM">https://youtu.be/zOOwEaNKUdM</a> ; <a href="https://youtu.be/3bKC66_kENU">https://youtu.be/3bKC66_kENU</a> ; <a href="https://youtu.be/5xJUUtYgYoI">https://youtu.be/5xJUUtYgYoI</a> ; <a href="https://youtu.be/B_RWpLGJ-fc">https://youtu.be/B_RWpLGJ-fc</a>

Mondovì, 09/06/2024

## OBIETTIVI MINIMI

Comprensione orale: comprendere messaggi di uso quotidiano riguardanti argomenti trattati.

Comprensione scritta: comprendere brevi testi con lessico e strutture riguardanti argomenti trattati.

Produzione orale: essere in grado di esprimersi in modo semplice e rispondere a domande inerenti agli ambiti studiati.

Produzione scritta: produrre testi, (reports, descrizioni di case da elaborati grafici, essays) su argomenti noti utilizzando strutture e lessico conosciuti.

## INDICAZIONI METODOLOGICHE PER LO STUDIO INDIVIDUALE ESTIVO

Ripasso degli argomenti del programma tramite riassunti, mappe concettuali, schemi degli argomenti svolti in classe con particolare attenzione ai testi di inglese tecnico, nonché alla storia dell'architettura.

## LAVORI DA SVOLGERE DURANTE L'ESTATE

Libro: Oscar Wilde, *The Picture of Dorian Gray*, Black Cat, ISBN: 978-88-530-0548-9.

Seguire la serie **The Crown** e gli episodi di **Grand Designs** oppure **Escape to the Country** su YouTube in lingua originale, con la relativa scheda video.

## TIPOLOGIA DI PROVA DA SVOLGERE A FINE AGOSTO

La prova scritta sarà di tipo semi-strutturato come quelle svolte durante il corso dell'anno scolastico, con alcuni esercizi di tipo descrittivo, domande aperte da rispondere in un numero predefinito di righe, comporre un breve testo tecnico descrittivo, comprendere un testo scritto tipologia B2.

La prova orale consisterà in un colloquio sugli argomenti trattati durante l'anno scolastico.

Mondovì, 08 giugno 2024

L'insegnante

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