


Sistema di gestione per la Qualità UNI EN ISO 9001:2015	Modulo lavoro	Pagina 1 di 3	I. I. S.S. "E. VANONI" MENAGGIO 
	<b>Allegato ML 2-08 PROGRAMMA SVOLTO</b>		

ANNO SCOLASTICO	2021-2022
CLASSE	3G
MATERIA	LINGUA E CULTURA INGLESE
DOCENTE	AMALIA GAGLIARDI

### SURVEYING


1. Surveyors' tasks
2. Surveyor types:
  - i. Land surveyors
  - ii. Quantity surveyors
  - iii. Building surveyors
4. Surveyors' professional skills and personal qualities

### HOUSING

1. Types of houses: detached, semi-detached, terraced, flats – advantages and disadvantages (comparing costs, space, possibility of extension, privacy)
2. Housing styles:
  - i. Tudor houses: interiors and exteriors
  - ii. Victorian houses: interiors and exteriors
  - iii. Bungalows: interiors and exteriors
  - iv. Contemporary houses: interiors and exteriors
  - v. Sustainable planning: hints
  - vi. Thatched cottages: materials used, technique, historical notes
  - vii. Stately homes
3. Housing problems

### BUILDING MATERIALS

1. Classification of building materials: animal, vegetal, mineral materials; natural and processed materials
2. Building materials:
  - i. Mud and clay: properties and uses
  - ii. Rock: properties and uses; metamorphic rocks, igneous rocks, sedimentary rocks
  - iii. The concept of thermal mass
  - iv. Bricks: properties and uses
  - v. Brick bonds
  - vi. Brick closures
  - vii. Brick types: cob, unfired clay brick, fired bricks

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- viii. Fired bricks: building, face, cored, glazed
- ix. Brick-making processes
- x. Masonry
- xi. Mortar: properties and uses
- xii. Cement and concrete: properties and uses
- xiii. Portland cement and the Isle of Portland
- xiv. Timber: properties and uses; softwood and hardwood: cost, availability, colour, weight, density, growth rate; examples of softwood and hardwood
- xv. Timber and wood
- xvi. Timber and pollution
- xvii. Technological glass items: solar control glass, thermal insulating glass, double-glazed glass, self-cleaning glass; glass fabric and glass wool
- xviii. Glass: advantages and disadvantages
- xix. Metals: ferrous and non-ferrous
- xx. Iron
- xxi. Steel
- xxii. Cast iron
- xxiii. Aluminum
- xxiv. Lead
- xxv. Plastics and synthetics
- xxvi. Nano and smart materials
- xxvii. Properties of materials: hardness, strength, toughness, stiffness, elasticity, plasticity, flexibility, brittleness

#### BUILDING COMPONENTS

1. Building structures
2. Foundations
3. Walls
4. Roofs
5. Floors
6. Stairs
7. Windows
8. Doors

#### SAFETY:

- i. Tasks of both employers and employees
- ii. Regulations in the UK: HASAWA, COSHH Regulations
- iii. Accident types occurring on sites
- iv. Classes of safety signs: prohibition, mandatory, hazards, fire-fighting, information, and combined signs
- v. Personal conduct and behavior
- vi. PPE: head, eye, hand, body, foot, hearing protection
- vii. CPD: scaffolding, safety rails, safety nets, safety fences

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- viii. Building site machinery (earthmoving, material handling, lifting, concreting)
- ix. Environmental vulnerability

CONTRIBUTI PER EDUCAZIONE CIVICA

- Analysis of sustainable building materials

Menaggio, 06 giugno 2022

FIRMA DEGLI STUDENTI  
PER PRESA VISIONE

FIRMA DEL DOCENTE

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