Anno Scolastico 2023-2024

**PROGRAMMA SVOLTO DI LINGUA INGLESE CLASSE**

**V A - INFORMATICA**

Prof.ssa Paola De Dominicis

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| **Testi in adozione:** | * Libro di testo: - Ravecca, **Information Technology Skills And Competences. English For Technology**, Minerva Italica * Grammatica di riferimento: Andreolli, Linwood, **Grammar Reference New Edition**, Petrini * Altri Materiali forniti durante l’anno: siti web, articoli online, fotocopie. Esercizi specifici finalizzati alla prova Invalsi sono stati predisposti dalla docente o eseguiti tramite i siti: <http://invalsi-areaprove.cineca.it> , <http://online.scuola.zanichelli.it/invalsi/quinta-superiore> |

1. **Working With New Technology**

**Unit 3 - Computer Issues**

* The dark side of the Internet
* The anatomy of a phishing scam
* Fake news

**Unit 7 - Operating systems**

* Algorithm basics
* Operating systems- brief
* Windows multitasking
* What is Google Android?
* Ubuntu: “Humanity to others”

**Unit 8 – Computer languages**

* Object oriented programming (OOP)
* Comparing programming languages: SCRATCH vs PYTHON
* Introduction to C++
* Markup languages
* Java & JavaScript

**Unit 9 – Software applications**

* Word processing
* How the spreadsheet has changed accounting
* An intro to the database
* The magical word of graphic software

**Unit 10 – Networking**

* Types of area networks
* Network topologies explained
* Network standards and protocols
* Internet protocols
* The fundamentals of an Ethernet LAN

*Students’ project work: “Network Topologies” (Elaborati degli studenti)*

**Unit 11 – Getting connected**

* Digital telephone connections
* Optical fibre, the way of the future
* Wireless networking
* Bring the Internet to your mobile phone

**Unit 12 – Information on the Web**

* Information at your fingertips
* Google
* From Web 1.0 to Web 4.0
* Aggregators

**Unit 13 – Communicating on the Net**

* Facebook’s Privacy crisis

**Unit 14 - Multimedia and entertainment**

* Online gaming

**Unit 15 – Internet marketing and online shopping**

* Introducing e-commerce
* Bitcoin: the world’s leading cryptocurrency

**B) Additional material and activities**

* Visione del film: “The Imitation Game”.
* Video: Prof. Jim Al-Khalili - Alan Turing: Legacy of a Code Breaker, <https://youtu.be/fzKzJGmYq3o>
* fotocopia, da AAVV, Career Path in Technology, Lang, p. 181, “The hidden hero that died in disgrace.”
* Pros and Cons of Online Shopping, <https://www.thebalancemoney.com/the-pros-and-cons-of-online-shopping-939775>
* E-Commerce (da Working with Technology, pp. 226-227) <https://drive.google.com/file/d/1aCJOwS3QiXrPrPtlI-hcap9WewhqC6Pu/view?usp=classroom_web&authuser=0>
* Cryptocurrencies (da Fruen, Borsbey, Swan, **Goals B2**, Black Cat p. 205) <https://drive.google.com/file/d/1dfxLYslsvau79B6qI9ZIWmiepeD8MEDO/view?usp=classroom_web&authuser=0>
* Video: “Anonymus, l’Esercito degli Hacktivisti” <https://youtu.be/tccBWieL5qw?si=gWAaw6PzDL5KuLOs>
* BBC, AI can be easily used to make fake election photos – report <https://www.bbc.com/news/world-us-canada-68471253>
* The Guardian, Inside the Taylor Swift deepfake scandal: ‘It’s men telling a powerful woman to get back in her box’, <https://www.theguardian.com/technology/2024/jan/31/inside-the-taylor-swift-deepfake-scandal-its-men-telling-a-powerful-woman-to-get-back-in-her-box>
* "Fake News," Lies and Propaganda: How to Sort Fact from Fiction, <https://guides.lib.umich.edu/fakenews>
* The Power of Big Data and Psychographics | 2016 Concordia Annual Summit, <https://youtu.be/n8Dd5aVXLCc?si=eAPYab0PPH4nP1rD>
* The Guardian, The Cambridge Analityca files, ‘I made Steve Bannon’s psychological warfare tool’: meet the data war whistleblower, <https://www.theguardian.com/news/2018/mar/17/data-war-whistleblower-christopher-wylie-faceook-nix-bannon-trump>
* Isaac Asimov, True Love, <http://goodmanla.weebly.com/uploads/6/1/3/0/61302797/true_love_by_isaac_asimov.pdf?authuser=0>
* Gen Z workers started their careers at a tough time. Will their native AI fluency help them get ahead?, By Elizabeth Bennett18th July 2023 <https://drive.google.com/file/d/1rY5F27nbs0hz-g9y32IorgN6OeBn20_2/view?usp=classroom_web&authuser=0>
* BBC, AI-generated naked child images shock Spanish town of Almendralejo, <https://www.bbc.com/news/world-europe-66877718>
* What is artificial intelligence and how is it used? <https://www.europarl.europa.eu/topics/en/article/20200827STO85804/what-is-artificial-intelligence-and-how-is-it-used>
* EU AI Act: first regulation on artificial intelligence, <https://www.europarl.europa.eu/topics/en/article/20230601STO93804/eu-ai-act-first-regulation-on-artificial-intelligence>
* Sky News, US actors' strike: Why are Hollywood stars walking out and what does it mean for film and TV industry? <https://news.sky.com/story/us-actors-strikes-why-are-hollywood-stars-walking-out-and-what-does-it-mean-for-film-and-tv-industry-12920662>
* Britannica ProCons.com, Artificial Intelligence (AI) — Top 3 Pros and Cons, <https://www.procon.org/headlines/artificial-intelligence-ai-top-3-pros-and-cons/>

**B) Ed. Civica:** Debate: "AI WILL exacerbate existing inequalities or create new forms of injustice."

**C) Didattica orientativa**

- “My work experience – Carol” (da Kiaran O'Malley, **Working With New Technology**, Pearson Longman, p. 261)

- Riflessione sull’esperienza estiva di PCTO; Life Skills

**D) PCTO**:

- Writing a CV and an Application Letter

- A job interview

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| I Rappresentanti degli Studenti:  …………………………………………. …………………………………………. | L’Insegnante:  …………………………………………. |