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| **Materia** | **LINGUA INGLESE** |
| **Insegnante** | **Cattapan Carmela Elena** |

**CLASSE 5INF2 ANNO SCOLASTICO 2019/20**

**PROGRAMMA SVOLTO**

Attività di Reading e Listening in preparazione alle prove INVALSI

Orwell, Animal Farm: lettura e commento.

The European CV and English CV.

Coping with job interviews: a CV Centre Guide (photocopy)

Linkedin (photocopy)

The exponential growth and Coronavirus epidemic: a video.

**Computer English:**

Networks: LAN,MAN, WAN, PAN, BAN; Network architectures: client/server, peer-to-peer; network devices; network topologies. Ethernet and token ring standards. Wireless technologies: Wi-Fi, LTE, Bluetooth, RFID, NFC.

The Internet: what is the Internet, history of the Internet. TCP/IP protocols.The World Wide Web.

Web 2.0 and Web 3.0

Gli studenti hanno approfondito individualmente uno dei seguenti argomenti riferiti ad Internet:

IOT, streaming, Wikipedia, browsers, cloud computing, Deep Web and Dark Net, machine learning, social networks, search engines, blogs and forums, cookies, P2P, YouTube, podcasting and Spotify, MMO, Advertising on the Internet, Online banks, 5G.

SAN and NAS

Operating systems: main features and utilities.

Application software, intellectual property rights and software piracy.

Generations of programming languages : high level languages and low level languages, compilers and interpreters, the most used programming languages of the third generation (Pascal, C, etc.). 4GLs and natural languages.

Expert systems.

The program development life cycle: analysing, designing, coding, testing, formalising a solution and maintaining a program. Spaghetti code and structured programming.

Object oriented program development.

Java. Python

The database approach. Databases management systems and querying a database.

Relational, object-oriented and multidimensional databases. Normalization.

Data lake vs data warehouse

Big data and NoSQL databases

Digital security: malware and networking threats. Internet security software. Firewalls and DMZ.

Encryption. Authentication.

**Bibliografia**

Il materiale utilizzato per le lezioni è stato fornito in fotocopie (didattica in presenza), in formato digitale e da siti web (soprattutto per la didattica a distanza). Alcune letture sono dal testo in adozione Bit by Bit.