

**1. \*Contenuti disciplinari e tempi di realizzazione (fino al 15/05/20)**

U.D. /Moduli/Approfondimenti	N. ore
<b>Module 1 - PTCO: APPLYING FOR A JOB:</b> <i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico: worksheets, appunti di lezione, testi di lettura. In riferimento al libro di testo: text 3 p. 178, text 4 p. 179, text 6 – part 1 p. 180-181, text 6 – part 2 p. 182.</i> Recupero nuclei fondamentali non svolti in classe terza e quarta: my ideal job, soft and hard skills. <u>My Internship Report</u> (presentazione powerpoint da parte di ciascun alunno in merito all'esperienza di Alternanza Scuola-Lavoro). <u>Steve Jobs - Stanford Commencement Speech 2005.</u> Video: <a href="https://news.stanford.edu/2005/06/14/jobs-061505/">https://news.stanford.edu/2005/06/14/jobs-061505/</a> (video and worksheet). <u>The Application Process:</u> - Understanding job advertisements. - Writing a successful CV: <a href="https://www.youtube.com/watch?time_continue=1&amp;v=U0JAFqEak2c">https://www.youtube.com/watch?time_continue=1&amp;v=U0JAFqEak2c</a> and <a href="https://www.youtube.com/watch?time_continue=81&amp;v=Yg-AH2Gb_gM">https://www.youtube.com/watch?time_continue=81&amp;v=Yg-AH2Gb_gM</a> . - The European CV Format. - My Video CV (realizzazione di un video CV da parte di ciascun alunno, a partire dalla propria esperienza personale); My digital profile (attività alternativa a Video CV). - Job Interviews - Expert advice on job interviews: <a href="https://www.youtube.com/watch?v=Nlvp9yThI5Y">https://www.youtube.com/watch?v=Nlvp9yThI5Y</a> ; - Job Interviews - Mistakes to avoid during a job interview: <a href="https://www.youtube.com/watch?v=rAxOebp_iG0">https://www.youtube.com/watch?v=rAxOebp_iG0</a> . - Job Interviews: What you should know about interviews (photocopy).	settembre-ottobre (18H)
<b>Module 2 - TOWARDS INVALSI</b> Preparazione alla prova INVALSI attraverso simulazioni di lettura/ascolto e comprensione, a partire dai contenuti disciplinari affrontati in classe (moduli di PTCO e di microlingua), lezioni di metodo e di consolidamento linguistico.	settembre-febbraio (14H)
<b>Module 3 - PTCO: WORKPLACE SAFETY:</b> <i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico: worksheets, appunti di lezione, testi di lettura, video. In riferimento al libro di testo: text 1 p. 26.</i> Workplace safety: useful terms (hazard, risk, damage, injury, precaution, accident). What is workplace safety? How can you guarantee workplace safety? Who is responsible for preventing accidents in the workplace? Are accidents in the workplace preventable? How? Reading text: Safety first! (photocopy). Reading text: safety at the workplace (photocopy). Personal Protective Equipment. PPE Essentials (video activity <a href="https://www.youtube.com/watch?v=Nzh5acd3hTE">https://www.youtube.com/watch?v=Nzh5acd3hTE</a> + scheda di lavoro). Safety Signs – colours and shapes (scheda di lavoro) + video activity: <a href="https://www.youtube.com/watch?v=mWCW8MlwarC&amp;feature=emb_logo">https://www.youtube.com/watch?v=mWCW8MlwarC&amp;feature=emb_logo</a> Risk Assessment: hazard identification, risk analysis, safety education	novembre-dicembre (8H)

<p>(<a href="https://www.ccohs.ca/oshanswers/hsprograms/risk_assessment.html">https://www.ccohs.ca/oshanswers/hsprograms/risk_assessment.html</a>).</p> <p>Safety Education (photocopy).</p> <p>Safety: Ergonomics. Student's book p. 26: User, heal thyself!</p> <p>Healthy Computing:</p> <p><a href="https://wps.prenhall.com/bp_evans_techinaction_6/106/27238/6972929.cw/content/index.html">https://wps.prenhall.com/bp_evans_techinaction_6/106/27238/6972929.cw/content/index.html</a></p>	
<p><b>Module 4 – TECHNOLOGY:</b></p> <p><i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico: worksheets, appunti di lezione (powerpoint presentation).</i></p> <p>What is technology?</p> <p>What is the difference between technology and science?</p> <p>What can technology do for us?</p> <p>Advantages and disadvantages of technology.</p> <p>How has technology changed the world?</p> <p>Different types of technology.</p> <p>TEDTalk: Can technology solve our big problems? <a href="https://www.ted.com/talks/jason_pontin_can_technology_solve_our_big_problems?language=en">https://www.ted.com/talks/jason_pontin_can_technology_solve_our_big_problems?language=en</a>. Worksheet: vocabulary. Comprehension questions.)</p> <p>Project work: a piece of technology that has changed the world (<i>approfondimento individuale da parte di ciascun allievo, con presentazione powerpoint alla classe</i>).</p>	gennaio (9H)
<p><b>Module 4 – COMPUTERS:</b></p> <p><i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico: worksheets, appunti di lezione, testi di lettura, video. In riferimento al libro di testo: text 1 p. 19, text 3 p. 21, CLIL expansion pp. 33-36.</i></p> <p>What makes a computer a computer? <a href="https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-what-makes-a-computer-a-computer">https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-what-makes-a-computer-a-computer</a></p> <p>How does a computer work on the inside? Binary and Data: <a href="https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-binary-data">https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-binary-data</a></p> <p>Circuits and Logic: <a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/how-computers--work/v/khan-academy-and-codeorg-circuits-logic">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/how-computers--work/v/khan-academy-and-codeorg-circuits-logic</a></p> <p>Computer systems: CPU, operating systems: <a href="https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-cpu-memory-input-output">https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-cpu-memory-input-output</a></p> <p>Hardware and Software: <a href="https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-hardware-and-software">https://www.khanacademy.org/computing/computer-science/how-computers-work2/v/khan-academy-and-codeorg-hardware-and-software</a></p> <p>History of Computing: evolution and shape, generations of computers.</p> <p>Computers get smaller and smaller: desktops, laptops, netbooks, notebooks and hybrids. Advantages and disadvantages.</p> <p>Video activity: Steve Jobs Introducing The iPhone At MacWorld 2007 <a href="https://www.youtube.com/watch?v=x7qPAY9JqE4">https://www.youtube.com/watch?v=x7qPAY9JqE4</a></p> <p>Mac vs. PC: security, price, operating system, software, quality and options,</p>	febbraio+DAD marzo

boot time, upgrades ( <a href="https://www.computerhope.com/issues/ch001238.htm">https://www.computerhope.com/issues/ch001238.htm</a> )	
<p><b>Module 5 – NETWORKS, THE INTERNET AND THE WORLD WIDE WEB:</b></p> <p><i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico e in Google Classroom: worksheets, appunti di lezione, testi di lettura, video. In riferimento al libro di testo: text 1 p. 104, text 2 p. 105, text 1 p. 127, text 3 p. 130, text 1p. 139, text 2 p. 140, text 4 p. 142-143, text 5 p. 144-145, text 3 p. 152, text 4 p. 153, text 1 p. 160-161, text 2 p. 162, text 3 p. 163.</i></p> <p>What is a network?</p> <p>Peer-to-Peer and Client-Server networks.</p> <p>Types of networks according to size (LAN, WAN, MAN..) or topology (BUS, RING, STAR, TREE, LINE, MESH).</p> <p>Advantages and disadvantages of networks.</p> <p>What is the Internet?</p> <p><a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/what-is-the-internet">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/what-is-the-internet</a></p> <p>Wires, cables and WIFI:</p> <p><a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-wires-cables-and-wifi">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-wires-cables-and-wifi</a></p> <p>Internet protocols - IP addresses, DNS, TCP...:</p> <p><a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-ip-addresses-and-dns">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-ip-addresses-and-dns</a></p> <p>Packets, routers and reliability:</p> <p><a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-packet-routers-and-reliability">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-packet-routers-and-reliability</a></p> <p>HTTP and HTML:</p> <p><a href="https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-http-and-html">https://www.khanacademy.org/computing/computer-science/computers-and-internet-code-org/internet-works-intro/v/the-internet-http-and-html</a></p> <p>The Internet and the WWW: a comparison.</p> <p><a href="https://www.youtube.com/watch?v=laepk9KrAZY">https://www.youtube.com/watch?v=laepk9KrAZY</a></p> <p>Internet Services: communication (emails, blogs, social networks), E-commerce (B2B, B2C, C2C, C2B, Ebay), leisure (online gaming, reading, listening, watching, social media), information retrieval (browsing VS searching, wikipedia and wikimedia, indexes VS search engines), education.</p>	DAD aprile
<p><b>Module 6 – ROBOTICS AND ARTIFICIAL INTELLIGENCE</b></p> <p><i>I materiali utilizzati sono condivisi con i ragazzi in Didattica del registro elettronico e in Google Classroom: worksheets, appunti di lezione, testi di lettura, video.</i></p> <p>What is a robot?</p> <p>What do robots have in common?</p> <p>TEDTalk: The jobs we'll lose to machines – and the ones we won't</p> <p><a href="https://www.ted.com/talks/anthony_goldbloom_the_jobs_we_ll_lose_to_machines_and_the_ones_we_won_t?language=en">https://www.ted.com/talks/anthony_goldbloom_the_jobs_we_ll_lose_to_machines_and_the_ones_we_won_t?language=en</a></p>	DAD maggio
<p><b>Argomenti che presumibilmente saranno trattati dal 15/05/20 al 08/06/20</b></p> <p>Artificial Intelligence.</p>	



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**N.B. Il presente documento è stato visionato e approvato dai rappresentanti degli studenti per l'intera classe, con invio mail istituzionale al docente.**

**Data, 4 maggio 2020**