

## COMPUTER SCIENCE

Year 7  
(35 hrs, 1 hr per week)

1	<p><b>Internet services</b> Mail internet services. Creating a mailbox. Sending, receiving, and forwarding messages. Sending files. Using the address book and mailout lists. Manners in electronic correspondence. Rules of safe use of the email box. Main signs of spam and fishing. Using internet resources for common work. Levels and means of internet access. Saving data and collective work with documents on the Internet; managing common access. Cloud services. Online translators. The internet of things</p>
2	<p><b>Processing table data</b> Concept of electronic table. Table processors and their meaning. Table processor media. Electronic table objects – sheet, cell, and cell range. Type of data: numerical, monetary, dates, text, and percent. Inserting, editing, and formatting of data of main types. Addressing. Formulas. Editing and formatting of electronic tables. Copying and moving cells and ranges, specifically, those with formulas. Autosuggestions and autocomplete. Models. Stages of building models. Implementation of mathematic models</p>
3	<p><b>Algorithms and programs</b> Values. Variables. Assignment sign. Creating algorithms and programs using variables and various algorithmic structures: linear, trees, and repetitions. Describing models in the programming media</p>
<p><b>Expected results</b> <b>Pupil:</b></p> <ul style="list-style-type: none"> <li>● <b>Creates</b> an email box and uses mailout lists.</li> <li>● <b>Is able</b> to work in a team and organize team work online.</li> <li>● <b>Uses</b> online translators</li> <li>● <b>Realizes</b> the advantages and drawbacks of email correspondence.</li> <li>● <b>Adheres</b> to manners in electronic correspondence and safe email use.</li> <li>● <b>Realizes</b> the value of a personal education and communication media for studying and development; the meaning of the Internet of things in human life</li> <li>● <b>Uses</b> the means of processing of electronic tables to solve the study and life tasks.</li> </ul>	

## Educational programs in use for teaching Ukrainian children



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- **Analyzes** the task data and defines relations between the values. Builds mathematic models using electronic tables.
- **Uses** formulas in electronic tables.
- **Edits and formats** electronic tables.
- **Uses** means of autosuggestions and autocomplete to accelerate data entry.
- **Defines** tasks where electronic tables would be suitable
- **Makes conclusions** based on data analysis in electronic tables.
- **Uses** different algorithm structures and variables to solve the life and study tasks.
- **Uses** the means of programming to build models.
- **Realizes** the role of programming and modeling in solving the life and study tasks.