

Computer Science

Year 6

(35 hrs)

Table of contents	
1.	<p>Algorithm and algorithm executors</p> <p>Concept of an algorithm. Algorithm executors. Formal algorithm execution. Forms of an algorithm. Algorithms in our lives Plans of task execution Planning in our life Basic algorithm structures: following structure. Algorithm and program. Algorithm execution media Objects and events Creating and executing of algorithms in a definite studying media</p>
2	<p>Concept of operating system</p> <p>Concept of operating system, its role Graphic interface of operating system Concept of a file system. File system objects: file, folder, and shortcut. Features of file system objects: object name, object path, full name of an object, extended name, file size, and data carriers volume. File type concept Operations with file system objects: creation, selection, copying, renaming, moving, and deleting of objects. Operations with groups of objects: selection, copying, and moving. Recovery of the deleted operating system objects</p>
3.	<p>Multimedia</p> <p>Concept of multimedia. Multimedia objects: text, image, audio, and video. Fields of multimedia applications Multimedia objects input/output devices. Copying multimedia objects Pupil explains: the concept of multimedia, the design of multimedia players and means of viewing of graphic images; provides examples of: digital cameras and mobile devices Multimedia players, their role and functional capacities Means of viewing images, their role and functions. Change of values and features of graphical images, such as size and color. Main image operations: cropping and rotating</p>
4.	<p>Text processor</p> <p>Concept of a text document, its objects Text processor, its role Text processor environment. Creation, opening, and saving of a text document. Pupil defines the following notions: text document, text processor, text fragment; Text processor work modes Selecting text fragments. Work with text fragment: copying, moving, deleting, and pasting Entering and editing text Spelling check. Correcting the mistakes. Searching and replacing text fragments Formatting of symbols and paragraphs: font, size, style, color, alignment, paragraph indentation, and line spacing Algorithm of processing a text document Pasting graphic objects into a text document. Inserting schemes/diagrams Page numbering. Preview of a text document and printing</p>



5.	<p>Computer networks</p> <p>Computer networks and their role. Concept of network interaction. Types of computer networks Concept of a user and user session; joining a local network. Local network of an educational establishment. Work with network folders Concept of the Internet. The main Internet services Pupil defines the concepts: computer network, server and client PC; local computer network; global computer network; world wide web; website, webpage, hyperlink; world wide web concept. Concept of a website, webpage, and web address. Hyperlink Work with web browser. Using, creating and editing a list of websites selected for quick access Algorithm of search of information materials (messages) online. Concept of a keyword and search system. Simple search. Analyzing information materials (messages) found online Downloading images, web pages and fragments from Internet encyclopedia, dictionaries and online translators Copyright and the internet Rules of safe information material (messages) browsing</p>
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Expected results

- pupil is acquainted with the basic concepts of a course;
- knows how to operate a PC, computer networks, information technologies, the learning media, and algorithm execution;
- executes reproductive and problem tasks using information technologies or software media.