



Learning Content

2.1. INTRUDUCTORY TEXT

2.1.1 Topic 1 - Security/safety on the net

Internet security (safety) is a very important issue. The Internet is primarily a society of people and conceals the same dangers that every society conceals, especially when it facilitates the way people communicate with each other.

The Internet user and especially the teacher should be able to distinguish, avoid and also address any potential risk of the Internet.

Here are briefly outlined and described some of the basic knowledge and skills a teacher is required to have in order to protect himself/herself and his/her students from possible online hazards.

All the above will be presented in the following sub-topics (see expanded text):



- How to avoid “bad” sites
- Introduction to malware – How to avoid
- How to remove malware
- Securing internet accounts

Examples of inspiring explainer videos

Title of a video	The Dangers of the Internet
A Video Description	It explains the basic dangers of the internet providing interesting statistics as well
Link	https://www.youtube.com/watch?v=uquRzrcwA18
Title of a video	Internet Danger, How To Use Internet Safely
A Video Description	Animation video: it teaches how to use internet safely

Link	https://www.youtube.com/watch?v=500T--2nf40
Title of a video	Malware: Difference Between Computer Viruses, Worms and Trojans
A Video Description	It explains what someone needs to know about malware
Link	https://www.youtube.com/watch?v=n8mbzU0X2nQ

2.1.2 Topic 2 - Internet and Information Searching

Internet can be a rich source of information. The collection of the appropriate digital information (webpages, images, videos) can enhance the multifaceted approach of a subject and help students develop their critical competence and thinking.

The information problem solving process, which requires finding and using information, is a complex cognitive process, since it encompasses the coordination of searching, finding, evaluating and using the most useful, appropriate and valid information in an effective way. The Internet is an integral part of this process, since it provides relatively easy and quick access to information. Typically, searching for information on the Internet is being achieved by using a search engine.

The most important feature of a search engine that makes it a cognitive tool is the opportunities it offers for complex type searches based on Boolean logic.

In this context, the user can not only ask questions on the subject he is looking for, but can also put restrictions and think critically on his research subject. In order for the teacher to guide his/her students towards a cognitive process and the critical choice of information it is necessary to know both the available media options (search engines) and the search techniques that can direct or restrict/refine the search of the information.

This topic will engage the learners in getting acquainted with the most used search engines. It will also support the learners to understand that the most important feature of a search engine that makes it a cognitive tool is the service it offers for complex type searches based on Boolean logic. They will learn how to organize their search on the internet (i.e. find the right keywords, create targeted searches), how to use some search engines in general, how to formulate questions - requests in databases and how to evaluate the results.

Examples of inspiring explainer videos

Title of a video	Simple Google Search tips
A Video	Learn about three easy ways to get better results for your Google searches.

Description	
Link	https://www.youtube.com/watch?v=olMTM168BK8
Title of a video	Filter and refine your Google Search results
A Video Description	Learn how to use filters to narrow down your search results and find exactly what you're looking for.
Link	https://www.youtube.com/watch?v=ne8De4m_SbE

2.1.3 Topic 3 - The Web 2.0

The Web 2.0 is the “present” of World Wide Web offering various useful features to its users. These features include online file storage, collaborative file processing, access from everywhere, software usage without the need of local computer installation, embed collaborative work to other web sites etc. All these features are discussed in this topic giving several representative examples.

Title of a video	Web 2.0 A Quick Introduction
A Video Description	It gives a very quick introduction to Web 2.0. It provides a definition, characteristics, and examples.
Link	https://www.youtube.com/watch?v=fJe8V0TMrXQ

2.1.4 Topic 4 - Info management - Google Drive

Several online applications provide information storage and sharing and some of them offer opportunities for collaboration and co-creation of documents. Although not created for education, they can be used in multiple ways in teaching.

Web applications provide the possibility for storage and sharing information and some of them offer the opportunity for collaboration and documents’ co-creation. Although not created for education, they can be used in multiple ways by teachers.

Google Drive is a representative example of an internet application, suitable for information management. It is an online storage space, a cloud. Through this, documents can be sent to or shared with other users. One more important feature is the creation of shared documents, spreadsheets, presentations, tests and questionnaires.

As one of Google applications it is free and as it works on-line. No installation or upgrading is required. So there is no worry about application compatibility problems on different computers. It is simply required a registration, which is free of charge, to obtain a Google Account.

It works collaboratively. People can work on the same document at the same time with other users, who have been given the respective rights. In addition, the system keeps a change log, so we can keep track of the progress of the documents and evaluate the contribution of each member of the authoring team. In fact, it is a representative example of a digital universal tool that offers alternatives for pedagogical and teaching use in collaborative learning.

It can be used by teachers or students and improve the learning process by offering direct or indirect learning outcomes, as well as contribute to the better organization of everyday instructional practice.

It is especially useful for a teacher to have his/her online hardware stored and access it at any time, to make use of the opportunities of the shared document for collaboration and co-formation. Finally, it's been given him/her the possibility to create tests and questionnaires, conduct surveys, collect, organize, manage and present data. Students can also create shared documents on Google Drive and process them together for a project assigned to them. This promotes collaborative learning. In addition, the teacher can monitor the procedure of the creation and the contribution of each student through the background of the revisions that may occur, as well as to participate with his own observations.

This topic aims to help learners familiarize themselves on how to open a google account, upload and store documents in Google Drive, share data by giving editing, monitoring or commenting reading rights, create and manage collaborative documents and presentations, create, manage and utilize Google forms for designing questionnaires, collecting and presenting data and online research results or online tests. The above will be parts of separate sub-topics that will be analyzed subsequently, namely:

- Create a Google Account and get acquainted with the most basic Google Apps
- Uploading, storing and organizing data in the cloud (Google Drive)
- Creating, managing, sharing, giving user permissions and cooperating in shared docs and presentations
- Creating, managing, sharing, giving user permissions and cooperating in shared Google forms. Receiving the incoming data.
- Reviews' history monitoring
- Possibilities for pedagogical uses of Google Drive

Examples of inspiring explainer videos

Title of a video	How to Use Google Drive Beginners Tutorial
A Video Description	How to Use Google Drive: It explains and shows how to set up your account, sharing, tagging, leaving comments, creating folders, Docs, and Sheets.
Link	https://www.youtube.com/watch?v=cCZj5ojxRAA