**Authors Name:** Ceren Düzdiker

**Details**

**Course:** Information Technology and Software

**Unit Title:** Information Technology

**Topic:**Bilişim İle Tanışıyorum

**Grade level:** 5th Grade

**Time:**40+40 minutes ( 2 lecture hours)

**Content**

**Learning Outcomes:**

Students will be able to:

* Explain the basic concepts of information technologies.
* Recognize the change in information and communication technologies from past to present.
* Identify the positive and negative aspects of different information technologies.
* Explain the effects of using information technologies on physical and mental health.

**Instructional Materials:**

* Video
* Textbook
* Presentation

**Learning-Teaching Methods:**

* Drill and practice
* Presentation
* Demonstration

**Teaching Activities:**

At the beginning of the class, in order to gain students’ attention, teacher will show a video about “Evolution of Technology”. After finishing the video, teacher will ask some questions about the video so that S/he can increase students’ curiosity level about the topic.

Example questions:

o Can you recognize the differences between past and present’ tech?

o What is the importance of technology? Etc.

After getting answers from these kinds of questions, the teacher will talk about the objectives of the course. After that, the teacher will do a Kahoot quiz to assess students’ prior knowledge. After these 3 steps, the teacher can start the lesson with lesson’s presentation. During the class, the fundamentals of information technologies such as information, technology, communication etc. will be explained. Then, teacher will talk about the advantages and disadvantages of technology. In this time, teacher will endorse students for brain storming. Each student will try to find advantages and disadvantages of technology in 5 minutes. After 5 minutes, whole class will discuss what they found about the pros and cons of technology. After finishing the groupwork, the teacher will explain the effects of using information technologies on physical and mental health. At the end of the lesson, the teacher will assign students homework. Students will watch a documentary in their home as homework and they will discuss the documentary in their next lesson.

**Individual Learning Activities**:

Students are asked to find pros and cons of information technology in 5 minutes.

**Summary:**

To sum up, at the end of the lesson, students will be able to recognize what information is, what communication is and also will have enough knowledge about positive and negative sides of information technology.

**Measurement & Assessment Activities for Individual Performance:**

There will be no extra measurements. They will receive feedback from their individual learning activity.

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**Content**

**Learning Outcomes:**

* Students will be able to:
* Explain basic concepts and functions of computer system.
* Give examples of input and output units.
* Use the mouse and keyboard correctly.

**Instructional Materials**

* Textbook
* Handout
* Tutorial

**Learning- Teaching Methods**

* Presentation
* Drill and practice
* Demonstration

**Teaching Activities**

At the beginning of the course, students are asked about the technological tools in the IT class in order to draw their attention to the subject and to mobilize their prior knowledge. The answers from the students are focused on the computer. The teacher asks the students to think about the computer not as a whole but piece by piece, and all the computer terms that the students know are written on the blackboard. The flash material is opened over the smart board. The computer's external and internal hardware units such as keyboard, mouse, screen, case, processor, disk and so on. hardware is introduced. They are asked which of these hardware units are used for data entry to the computer, which are used to receive data from the computer. The hardware units are grouped as Input and Output units upon the answers from the students. The explanations in the handouts are read together and the questions are answered to reinforce the acquired information.

**Individual Learning Activities**

At the end of the course the game “use the mouse effectively” is prepared. Students are monitored and assessed by the teacher.

**Summary**

In this course, the computer's inputs and outputs are recognized. It aims to help the students use mouse and keyboard effectively.

**Measurement & Evaluation**

The teacher will give continuous oral feedback throughout the lesson.

**Measurement & Assessment Activities for Individual Performance**

There will be no extra measurement. They will receive feedback from their individual learning activity.

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**Content**

**Learning Outcomes**

Students will be able to:

* Explain data storage methods and storage units in the computer.
* Identify hardware and software-based solutions.
* Present the components of different brands, models and technologies.

**Instructional Materials**

* Textbook
* Handout

**Learning- Teaching Methods**

* Presentation
* Demonstration

**Teaching Activities**

Several storage areas are brought to attract students' attention. The students are asked how many of them they recognize. The class then is divided into groups of 7 and each group has a different storage space. Each group is given a paper with their own characteristics. Each group describes its own storage space and is finally asked to find similar sides. Then, the useful programs section in the textbook is read and the students are asked about the different software they know.

**Individual Learning Activities**

Different types of software and hardware are emphasized and students are asked to compare these differences.

**Summary**

At the end of this course, the student will be able to explain the data storage methods, storage units, hardware and software based solutions and present the components of different brands, models and technologies.

**Measurement & Evaluation**

The teacher will give continuous oral feedback throughout the lesson.

**Measurement & Assessment Activities for Individual Performance**

There will be no extra measurement. They will receive feedback from their individual learning activity.

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**Content**

**Learning Outcomes**

Students will be able to:

* Recognize the importance of data management in electronic environment.
* Comprehend basic file and folder management operations.

**Instructional Materials**

* Textbook
* Pictures

**Learning- Teaching Methods**

* **Presentation**
* **Drill and practice**
* **Demonstration**

**Teaching Activities**

Pictures of the library, grocery stores and stores are prepared. Grouped folders are prepared. The pictures are shown to the students. Students are asked how they keep their files in daily life. “What are the advantages of separating books according to the types of books in the library? How do you do the grouping of the items you use in your home? What if books and items were not found regularly?” These questions are asked and the course starts. Students will be shown folder and file creation methods. Issues to consider when creating files and folders are specified.

**Individual Learning Activities**

Students are asked to create folders and files during the lesson. They will be prompted to try whether they can create folders and files with the same name in the same place. They will be asked if folders and files can be moved from where they were created to. Moving, copying, deleting, searching jobs and operations are performed on file and folder.

**Summary**

In this course, students are expected to learn folder management.

**Measurement & Evaluation**

**Measurement & Assessment Activities for Individual Performance**

Students can create their own folders and store all their files in the period. The formation and development of this folder can be followed.