## Information and communication technologies: **1. Didactic means, aids, multimedia**

Methodological Concept for Effectively Supporting Key Competencies Using the Foreign Language ATCZ62 - CLIL as a Strategy at the College





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# Information and communication technologies,

#### ICT

## (Information and Communication Technologies),

#### In czech: IKT,

## Include all information technologies used for











. One of the means of communication is MEDIA.

• MULTIMEDIA is a material-energy information bearer, containing at least three independent information channels from each other, either to or from the learning system. Of these, at least two lead to a learning system, and at least one leads to the response of the learning system towards the educational system.

· Multimedia is a subset of hypermedia.





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## **Didactic means**

. Non-material: methods and organizational forms, didactic principles

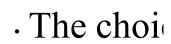
· Material (including virtual, for some digital devices):

· Tools - are directly related to the content, represent or illustrate it, in justed didactic or unadjusted form)

· Methodical aids (resources bound directly or indirectly to content)

. Spaces and their equipment

• Didactic technique (didactic means neutral in relation to the content, usable for realization with different goals, contents, methods and organizational forms)









## **Didactic aids**

#### 1. Original objects and real facts

- natural products in the state of origin (minerals, plants, etc.), prepared (preparations, stuffings, cuttings, etc.)
- products and creations in the original state (instruments, works of art, etc.), modified (sets and sets of samples, cutting machines, etc.)
- phenomena and processes, physical, chemical, biological, social, etc.,
- sounds, real sounds, voice and musical expressions.
- 2. View and represent objects and facts
- static, functional, modular, flat, etc.,
- presentations presented directly (pictures, photographs, diagrams, etc.), presented through technical means (statically, dynamically, interactively, virtually, 3D, etc.)
- audio recordings.
- 3. Text aids printed or digital
- Classical, working, programmed, interactive books,
- working materials, dictionaries, spreadsheets, task collections, atlases, etc.,
- Additional and auxiliary literature and information sources.
- 4. Programs presented (implemented) by technical means
- programs, educational films, radio and television programs, etc.,
- programs, information, tutoring, repetitive, etc.
- 5. Special aids
- experimental kits, kits etc.



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#### Multimedia



Are the **area of information and communication technologies,** which is characterized by the merging of audiovisual technical devices with computers or other devices. - A multimedia system means a collection of technical resources (such as a personal computer, sound card, video card or graphic card, camera, CD-ROM or DVD drive, relevant service software, etc.) that is suitable for an interactive audiovisual presentation.

- Since the early 1990s, the use of multimedia apps or multimedia software has been used to *combine text, image, sound, animation, or movie data*.



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