

Knowledges, skills, competences:

European qualification context

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School 3 Seasons

From fixed learning to flexible learning

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Differences

between

Teaching and evaluation

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Until seventies

Teaching in content

<u>Measure</u> of knowledge in marks

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Between seventies and 2000

Teaching and learning in targets

<u>Evaluation</u> of skills no more only in marks but also with opinions



After year 2000

Learning by competences

Certification of competences

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How schools change

From Ministry school to autonomous school

to

educational system for instruction and training.

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How schools change

From Ministry programs to National Indication (Liceo) and **Guide Lines** (Professional & Technical school)



How schools change

From knowledge teaching to

Competences learning

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School is not only education

School is

Education Learning Training



School is not only education

School is

Education to partecipate Learning to do Training to be



Teaching is giving : Knowledges, skills, competences:

Conoscenze, abilità, competenze



Knowledge

Gain, store and use

Informations and data

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Skills

Use a tool in a right way with acquired knowledge



Competences

Work Not only alone But in team



More Knowledge

<u>Knowledge</u> – an organized set of information & data related to objects, events, technics, rules, principles, theories, that the students learn, understand, store, & use in everyday operative procedural and problematic situations



More skills

<u>Skills</u> – single action a person carries out using familiar knowledge and tools.

Skill is is a portion of competence.



More competences

The capability to use knowledge, skills and personal, social & methodological attitudes while studying or working.

This is called responsibility & indipendence



Not the same thing

Measure

Evaluate

Certify

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Measure

Counting of mistakes : mark



Evaluation

Opinion After a learning unit



Certification

Certificate After a long period of observation



Lab teaching

Lab teaching includes a teacher not teaching but organizes a learning activity, better in group, to search, discover, organize, collect, sort, produce...



curiosity & risk try and go wrong, try again and again and succed

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Motivation



what are knowledeges, skills, competences after five years of high school

Knowledges: practical and theoretical in various working & studying field



what are knowledeges, skills, competences after five years of high school



A variety of theoretical & practical skills useful to give solutions for a wide range of specific problems at school or work



what are knowledeges, skills, competences after five years of high school

Competences: Be autonomous to solve problems that can change.

Monitor other people work having the responsibility for evaluation & improvement of work or study.



Certification Model dm n.9 jan.27 2010

Key competences to be an active citizen are not certificate but they are the base for cultural competences about 4 multidisciplinary axes



4 multidisciplinary axes

Languages Mathematics Scientific - Technological Historic & Social



Next step

How to join all these information with

computer science education