



SAPIENZA
UNIVERSITÀ DI ROMA

Knowledges, skills, competences:

Conoscenze , abilità, competenze



knowledges

- They state the results of informations absorption like facts, principles, theories and practices about a discipline through learning.



skills

They state the capabilities to apply Knowledges to carry out tasks and solve problems. The skills are divided in:

- ***Cognitive*** (involving the use of logical, intuitive and creative thinking)
- ***Practical*** (manual ability and use of methods, materials, tools).



competences

They show the capability to use knowledges, skills in a specific context combined with personal, social, and/or methodological abilities in certain state of work or study or in professional and/or personal development. All the competences give the power to be autonomuos and responsible.



Capability & skills

- **Capability** : the possibility to do something, you are able to do something.
- **Skills**: to apply the capabilities to achieve the goals with exercise and practice.



Learn how to learn

Cornerstone of education

- **Learn to know**
- **Learn to do**
- **Learn to live together**
- **Learn to be**



Keywords to understand competences

- **Be in touch with reality: relationship between the person and the world**
- **Problem solving: life is full of problems**
- **To know: set of elements to solve a problem**
- **Work: the person as thinker and worker**
- ***Central role of the individual: not only intellect growth***
- **Evolution: power is progressive**



What is competence

- **Combinatorial knowledge:**
- Mix between **capability** (individual characteristic) and **knowing** (objective and cultural knowing)
- Mix between **values** (intangible dimension) and **actions** (concrete point)

Transversal competences

They are the ones that cross every experience in daylife in every knowledge area :

From life (personal experiences) to school and from school to life.



What students must experience

Compare *understand* create judge
interpret assume observe produce
think experiment evaluate

In conclusion: **all** is
To experience



Essential features of competences

Observability:

Competence has to be clear, well defined with observable content

Observability gives possibility of certification because can be verified



Essential features of competences

Gradual approach

Competence is gradual, it moves forward by stages.

Its certification comes in pupils strategic growing moments, and at the end of the mandatory school.

Essential features of competences

Certification is **not** permanent but it can have further development.

School **must take care** of competences during the whole path to promote the growing and the self-awareness in every student.



competences observability iceberg metaphor

**The heritage of objective, visible
competences comes from an entire
subjective underworld**



Cross competences or single subject competences?

**Nowadays school is for
Cross Competences**



Cross Competences

- **Learn how to learn**
- **Design**
- **Communicate: understand and describe**
- **Cooperate and participate**
- **Act on a stand alone basis and with responsibility**
- **Problem solving**
- **Identify links and relations**
- **Obtain e interpret informations**



Cross disciplinary competences

- **Observe and describe.**
- **Measure:** to be able to use measurements or observation instruments.
- **Represent and modelling :** with table, drawings and graphics.
- **Argue :** speak about facts, phenomena, data; listen to other opinions and confront with others.
- **Communicate and document:** produce written and oral text with proper vocabulary.