

## whiteboarding

### Interactive multimedia whiteboard

Whiteboarding is a highly constructivist multimedia teaching tool which helps the teachers' proposals to meet students' needs in terms of contents, strategies and meanings. It goes beyond the oral dimension without giving it up, fosters dynamic cooperation and satisfies the new perceptual cognitive skills of today's students. It is so similar to the old blackboard that students, as well as teachers, feel it as an ordinary classroom tool, easy to be used, while its flexible, interactive, multimedia features have a major impact on motivation, concentration and active participation of students in developing definite learning paths. The user/device interaction takes place using a pen, a finger or other device, a personalised access which favours perceptual functions and helps young people who generally have a short attention span. Customisation of toolbars, levels of interactivity and available resources make it a tool for the whole class and builds a shared, learning environment which favours students' integration and inclusion. Procedures can be visualised making each step clear while the synergy of the different (visual, auditory, kinaesthetic) communication channels. It gives understanding a functional role in learning since personal efforts and resources are controlled and directed from the stage of understanding and executing procedures to the elaboration stages.

The most common activities in basic learning experiences are

- Presentation of models of problem solving, work development or organization, image and text manipulating with the aim of developing autonomy
- Critical reading of a text (identification of key words, semantic areas, context...)
- Cooperative correction, self-correction, revision, dynamic recursiveness, comparison and self-assessment
- Conceptualisation through design and comparison of scripts, frames, maps
- Use of whiteboarding software to define procedures, ask students to take notes on their reflection in order to help them to become familiar with the filing of records
- Research of multiple strategies to enhance personal initiative

Interesting experiences, from Lombardy, can be found at

[link to http://scuoladigitale.cefriel.it/LIM-e-Didattica/Esperienze/](http://scuoladigitale.cefriel.it/LIM-e-Didattica/Esperienze/)  
<http://scuoladigitale.cefriel.it/LIM-e-Didattica/LIM-esperienze-extraeuropee>

The acronym LIM stands for Lavagna Interattiva Multimediale

### Bibliography:

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Smith, H.J. , Higgins, S., Wall, K., and Miller, J. *Interactive whiteboards: boon or bandwagon? A critical review of the literature* Journal of Computer Assisted Learning, 21(2), pp.91–101, 2005