

Inspiring Teaching practice example

Use of interactive simulation for Science and Math

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Title	Use of interactive simulation for Science and Math
TET-SAT Area	Digital Pedagogy
Number and name of the illustrated competence	Question 3. Designing engaging learning activities with ICT
Estimated level for this competence	Capable
Learning outcome(s) associated with it	Integrate the activity of the laboratory with the interactive simulations to facilitate the learning of knowledge and skills for the chosen example and stimulate to extend them to new similar situations. The activity is prepared for pupils of first class of middle school.
Type or name of ICT used	Phet interactive simulation – University of Colorado - Boulder https://phet.colorado.edu/en/about
What you do that meet this level	Pupils built the concept of density and then worked out the relationship between mass and volume. Laboratory and simulation together involved students in exploitation and reflexive phase of work to achieve the defined objectives. The simulations can be re-written in groups or at home. Some simulations are an extension of laboratory activity (e.g. density of a little stone), something else is a good substitute of laboratory activity (e.g. ice cube).
Image or link to the example	https://phet.colorado.edu/en/simulation/legacy/density Density workshop Danesi Laura Italy
Draft actions to move to the next level	Talking to more experienced colleagues about other interactive simulation and how they build their strategies and having the opportunity to teach in a “digital” school. In one of my class, I haven’t the LIM and sometimes Internet isn’t available.