

STEM Education Practices in Europe 2018

General

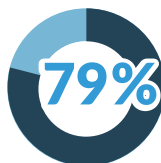
 **3,780** participants from **38** countries

Pedagogy

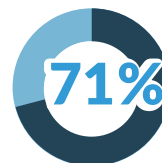


Traditional instruction remains dominant

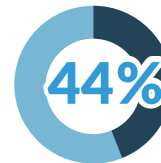
Traditional direct instruction



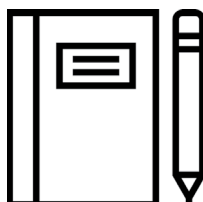
Project/problem-based approach



Inquiry-based science education

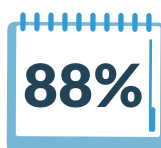


Resources

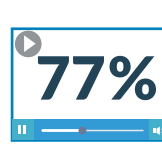


Paper-based materials are used extensively

Paper-based materials



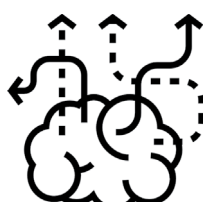
Audio/video materials



Collaborative online tools

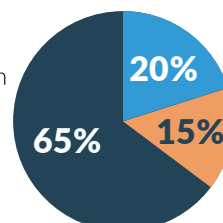


Professional Development

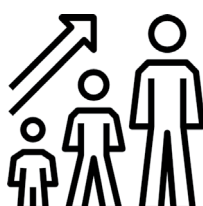


Limited time on professional development

STEM teachers spent, on average, limited time on professional development in the last 2 years

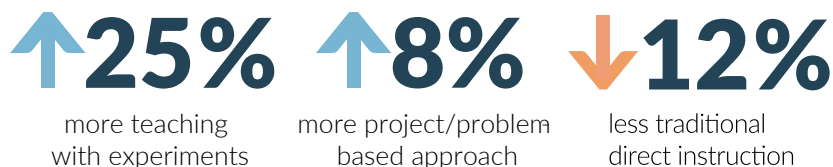


Experience

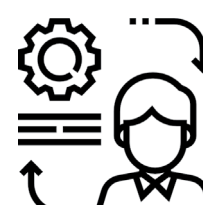


Experience increases innovation

STE teachers with 30+ years of experience compared to teachers with 4 or less years of experience



Attitudes



There is room for collaboration with industry

STEM teachers would like more resources from the industry



Nistor, A., Gras-Velazquez, A., Billon, N. & Mihai, G. (2018). STEM Education Practices in Europe. Scientix Observatory report. December 2018, European Schoolnet, Brussels. <http://www.scientix.eu/observatory/stem-education-practices-europe>