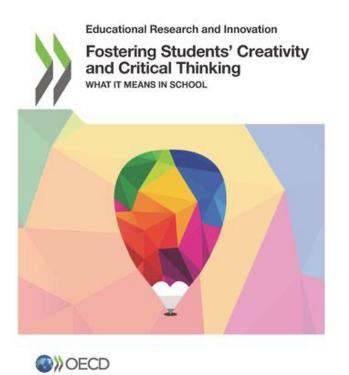
Centre for Educational Research and Innovation - CERI

Fostering students' creativity and critical thinking in science education: lessons for innovation

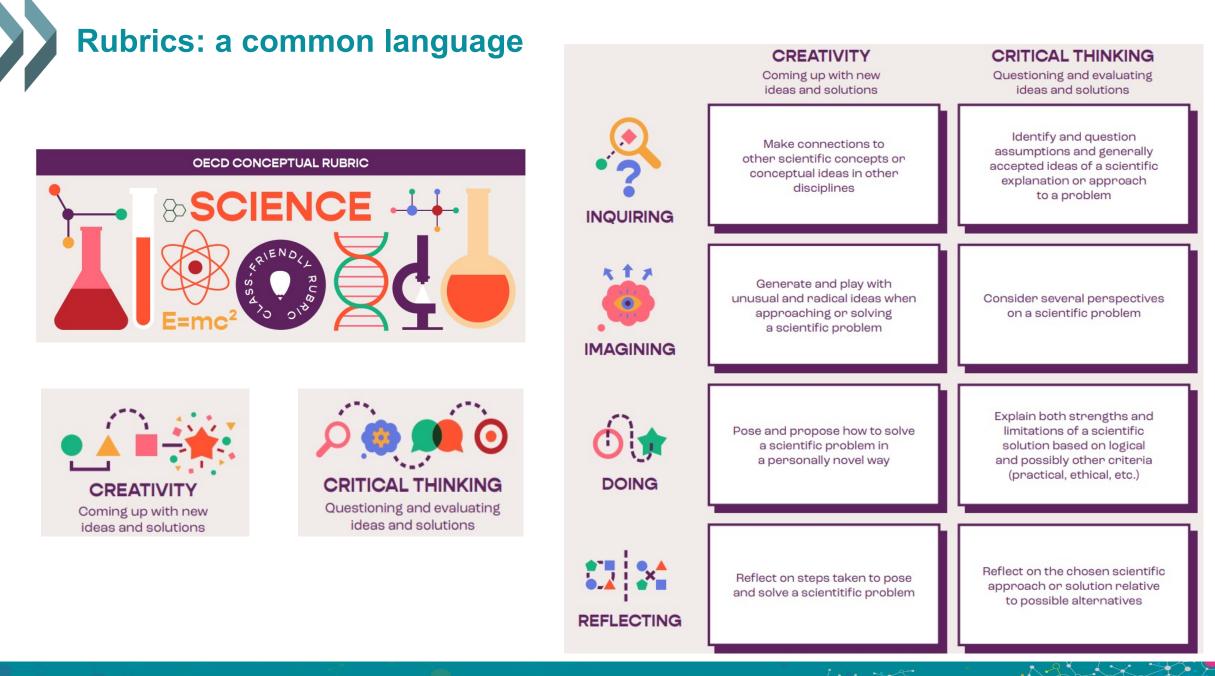
Cassie Hague, Centre for Educational Research and Innovation



An international action research project around innovation in education



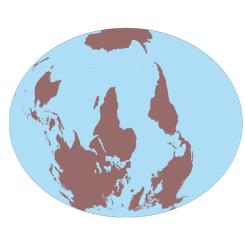
https://www.oecd.org/education/ceri/assessingprogressionincreativeandcriticalthinkingskillsineducation.htm



Examples of tasks in science to foster creativity and critical thinking



1. Explain physical phenomena



3. Imagine scientific counterfactuals



4. Solve environmental problems



5. Challenge a theory



2. Design artefacts

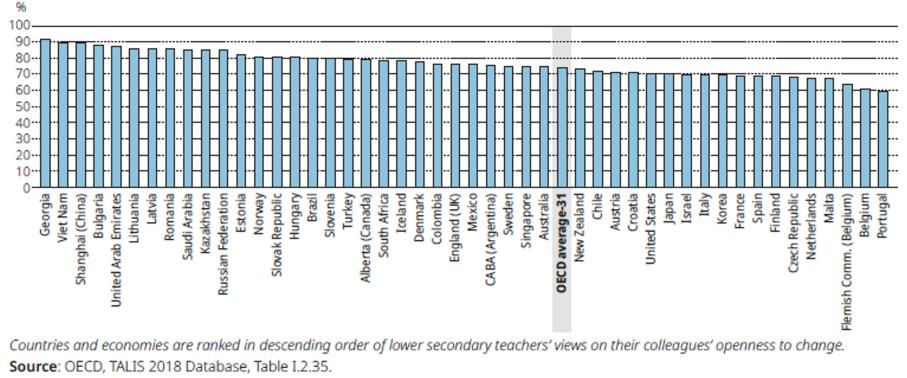
Making a bank of pedagogical resources available to teachers



Teachers are open to innovation

Figure I.2.12 Teachers' views on their colleagues' attitudes towards innovation

Percentage of lower secondary teachers who "agree" or "strongly agree" that most teachers in the school are open to change (OECD average-31)



StatLink and http://dx.doi.org/10.1787/888933932114