

Project Summary (150 words maximum)

This project aims to create an extensive database of physics examples with strong connections to everyday life. Articles, homework problems, multiple choice questions, lecture notes, and videos are meant to further students' understanding of physics as well as their critical thinking and problem solving skills. Basic physics concepts are applied in examples of sustainability, energy, climate change, biology and medicine. These examples relate to students' interests and should increase their motivation to spend time on physics problems. The teaching resources are primarily designed for non-physics majors in first-year physics and engineering courses, and for grade 11/12 classrooms.