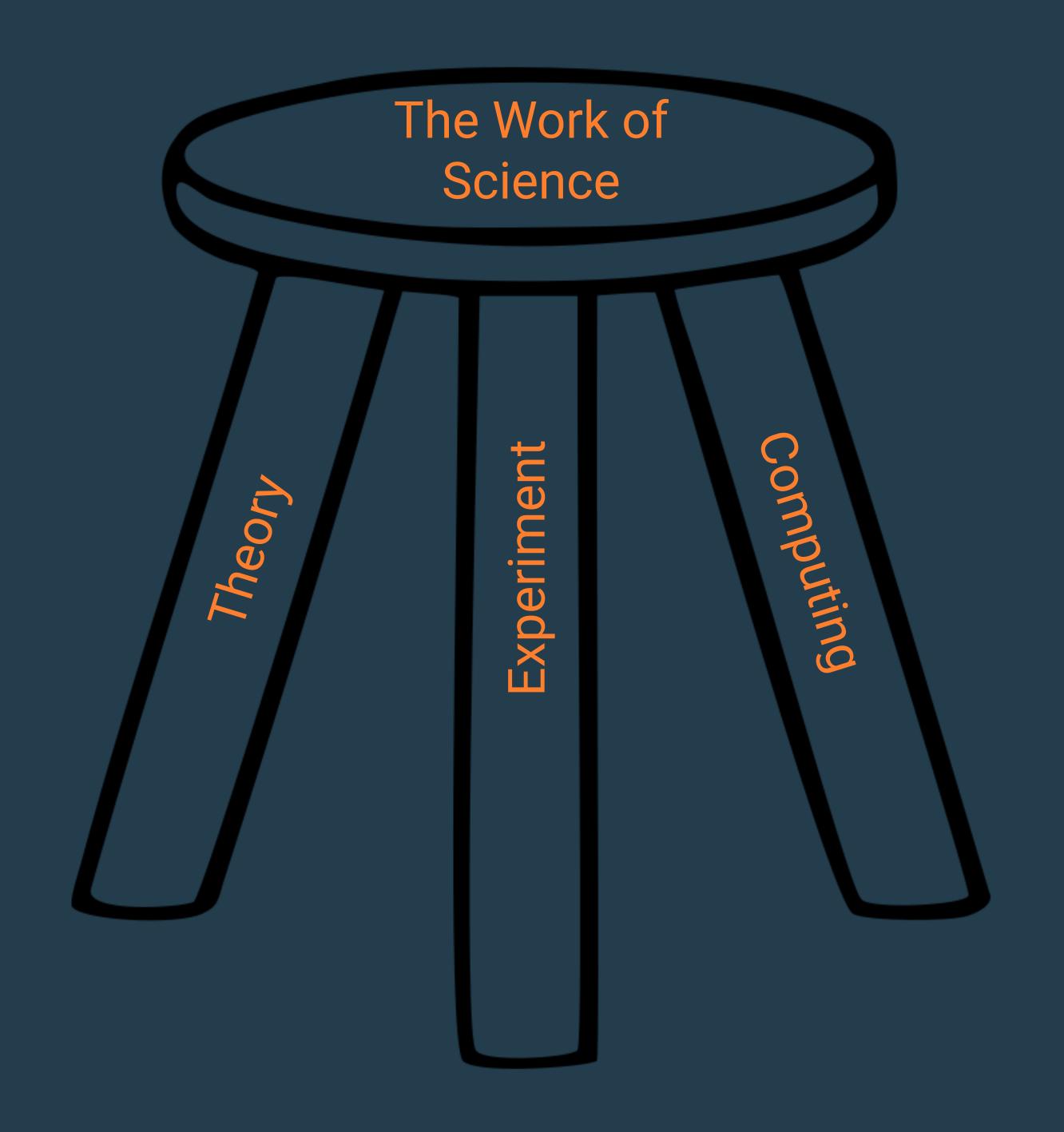
Computing is how science is done.



PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH 15, 020152 (2019)

Editors' Suggestion

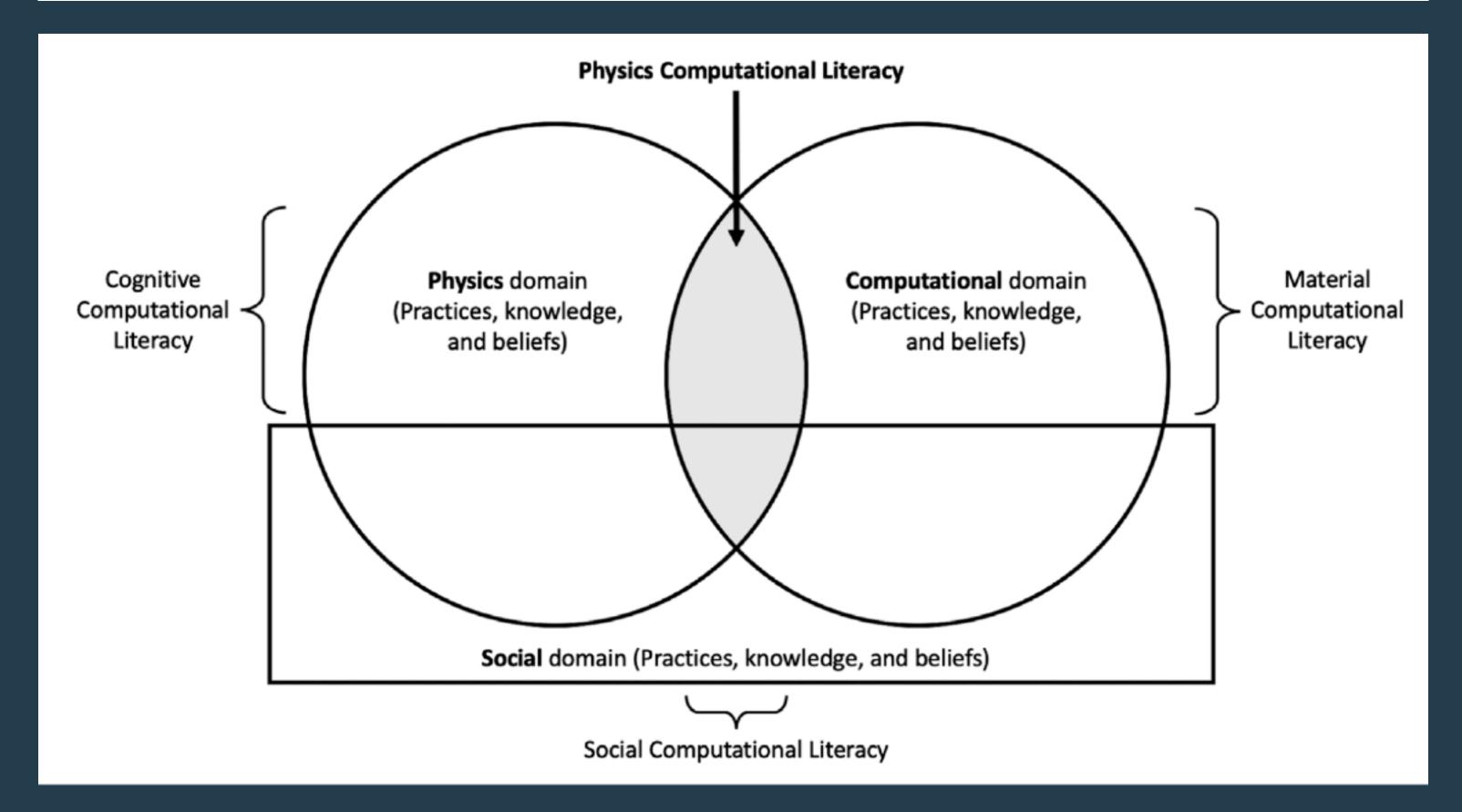
Physics computational literacy: An exploratory case study using computational essays

Tor Ole B. Odden[®], Elise Lockwood[®], and Marcos D. Caballero^{1,3}

¹Center for Computing in Science Education, University of Oslo, 0316 Oslo, Norway

²Department of Mathematics, Oregon State University, Corvallis, 97331 Oregon, USA

³Department of Physics and Astronomy & CREATE for STEM Institute, Michigan State University, East Lansing, 48824 Michigan, USA







Computational Literacy involves cognitive, material, and social literacies

Overlapping practices, knowledge, and beliefs

Requires further R&D