This folder has two QuILTs which have been combined into one but can be given separately to students as two separate QuILTs (solutions to the multiple-choice questions are in two separate files). The first part of the QuILT deals with basics of bound and scattering states and the second part of the QuILT deals with drawing bound and scattering state wave functions for large values of principle quantum number using semi-classical approximation.

Students should first be asked to work on the pretest after instruction but before the QuILT (the Combined-Pretest file). Then, students should work on the QuILT and then they should take the post-test.

The simulations "bound-state.jar" and "quantum-tunneling" are created by Sam McKagan, Chris Malley, Wendy Adams, Kathy Perkins aand Carl Wieman (phet.colorado.edu). We thank the developers of PhET and the authors of the simulations for sharing their programs.