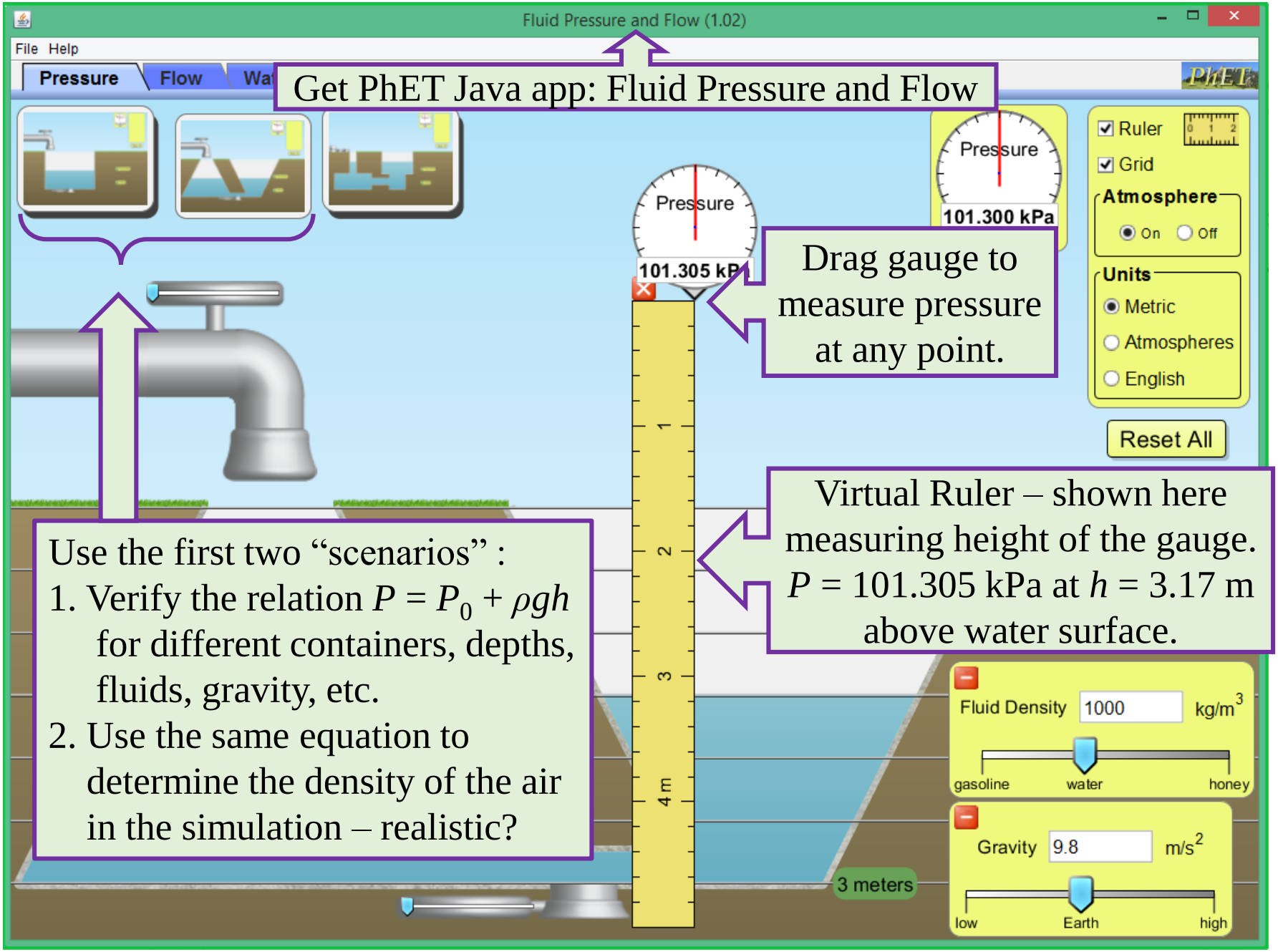
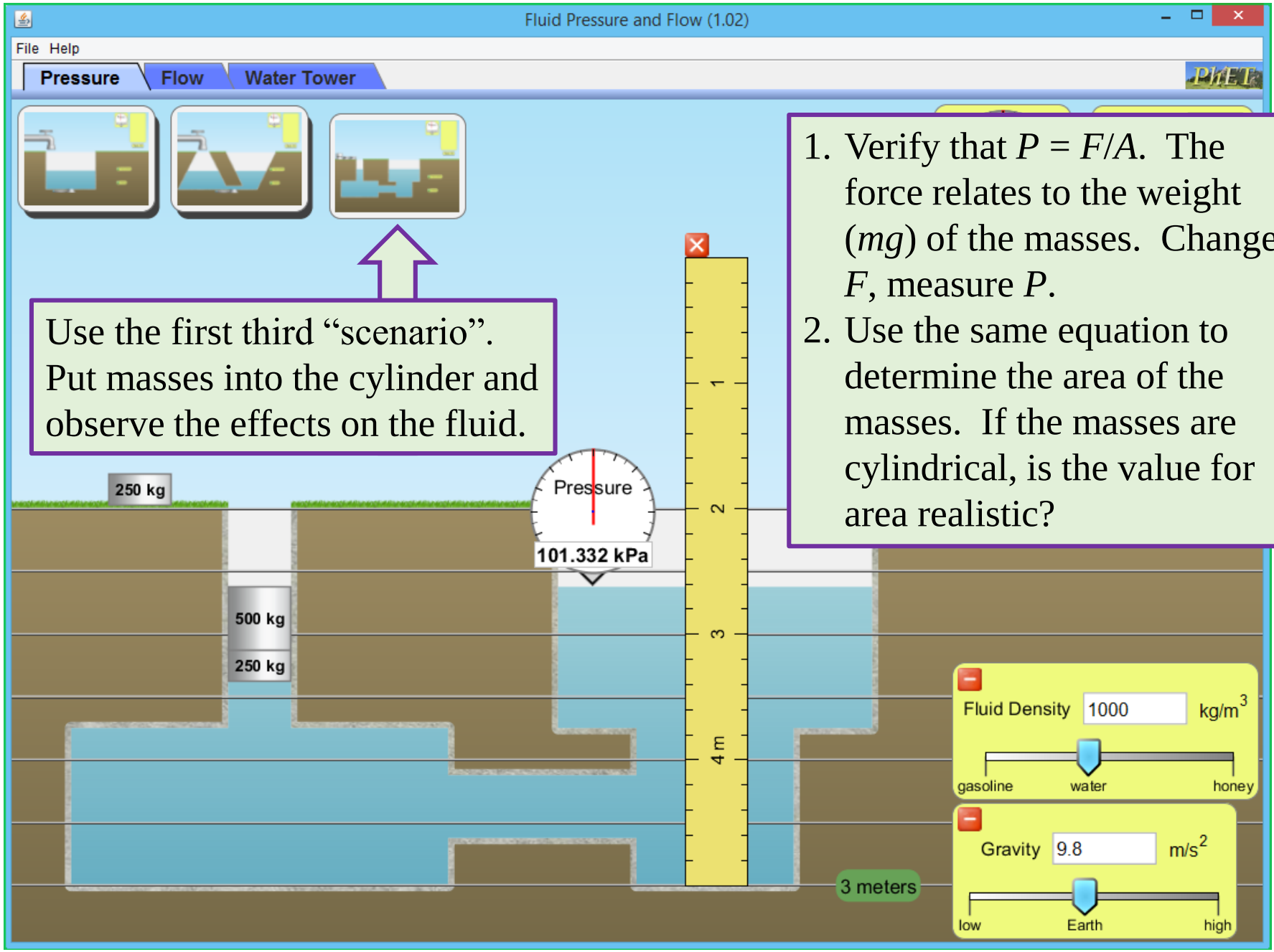
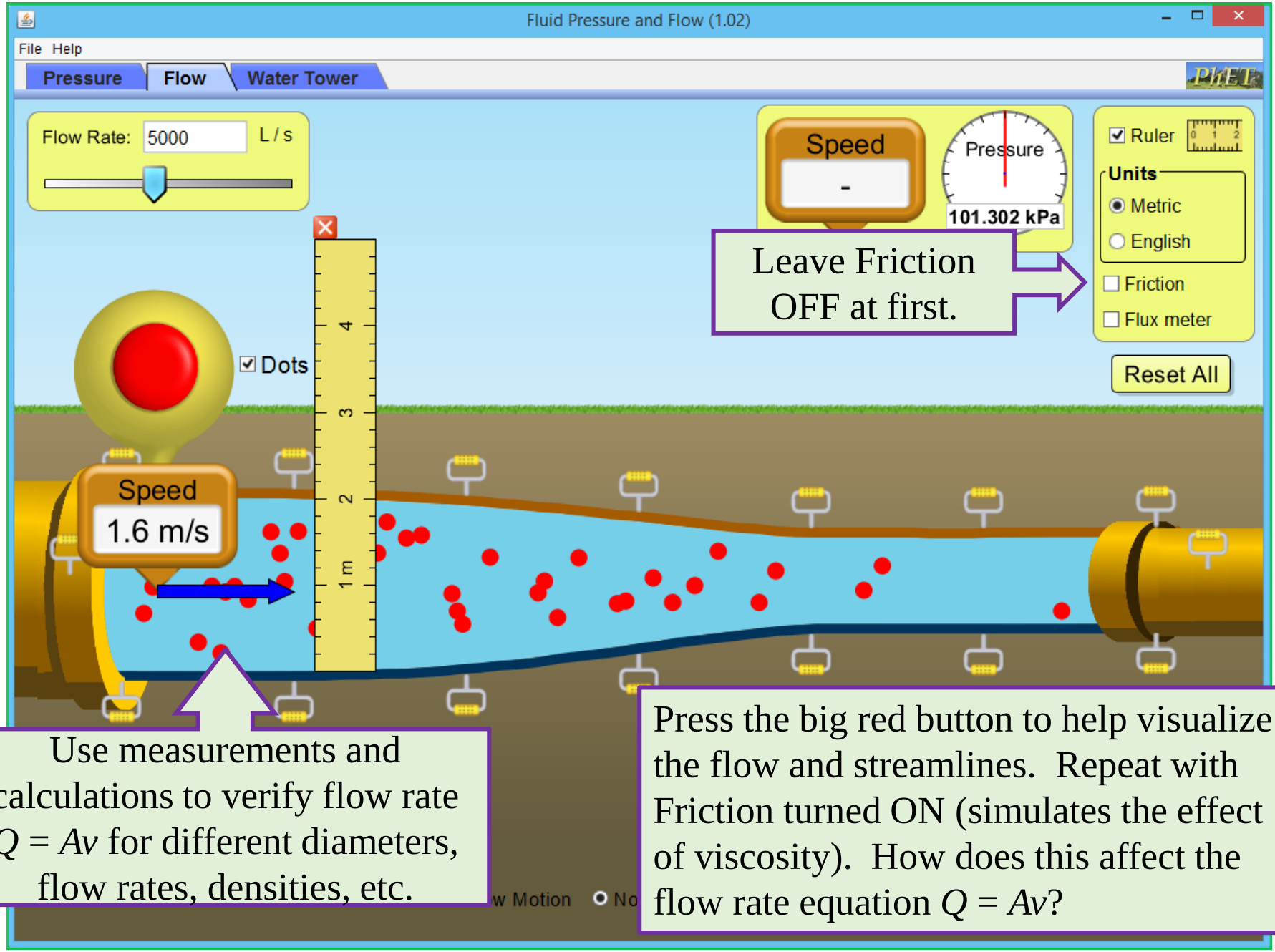
Virtual Lab – Fluid Basics



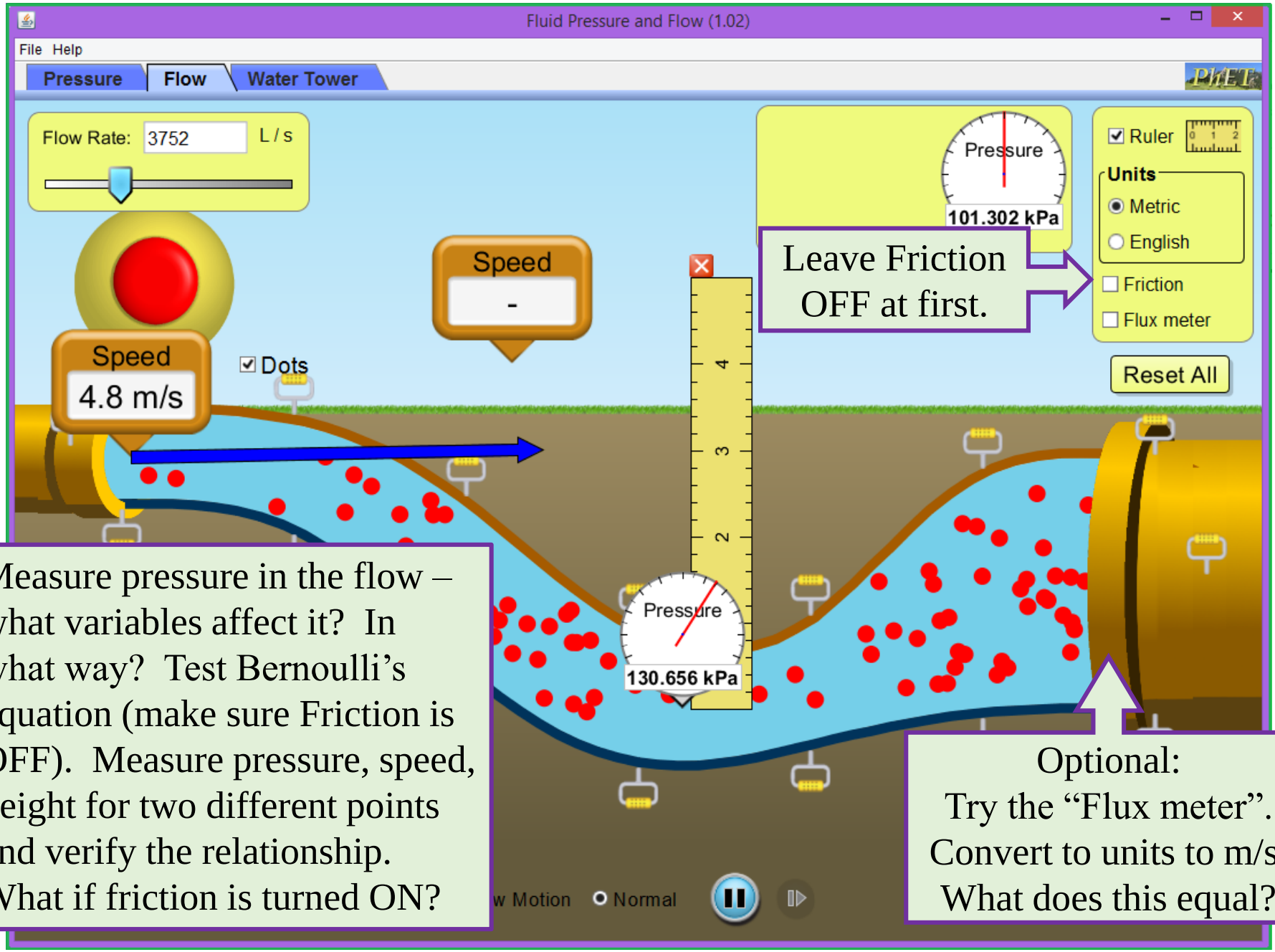
Fluids Statics – Piston and Cylinder



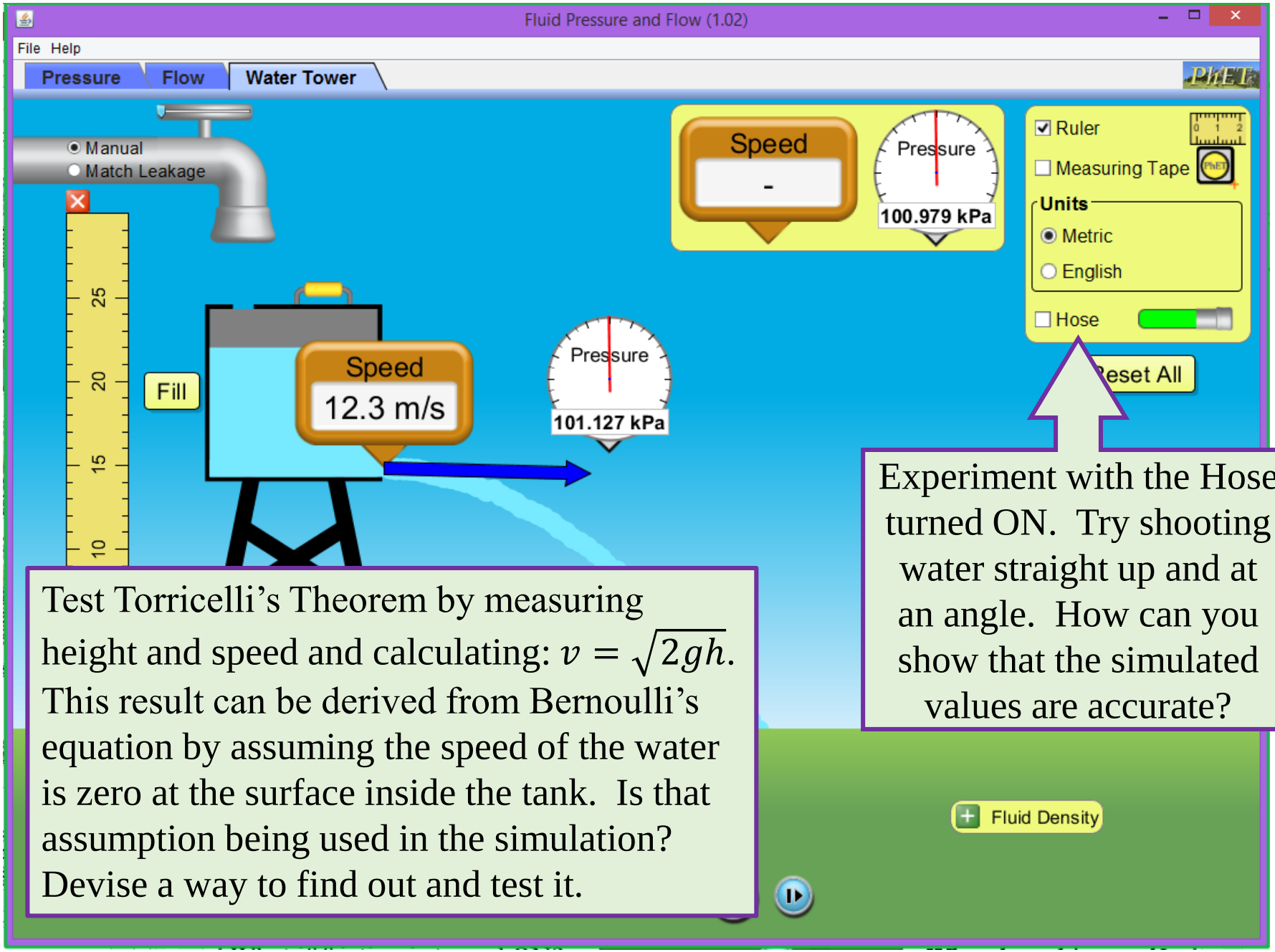
Fluids Dynamics – Flow Rate, Continuity, Bernoulli's Equation



Fluids Dynamics – Flow Rate, Continuity, Bernoulli's Equation



Fluids Dynamics – Torricelli's Theorem



Test Torricelli's Theorem by measuring height and speed and calculating: $v = \sqrt{2gh}$. This result can be derived from Bernoulli's equation by assuming the speed of the water is zero at the surface inside the tank. Is that assumption being used in the simulation? Devise a way to find out and test it.

Experiment with the Hose turned ON. Try shooting water straight up and at an angle. How can you show that the simulated values are accurate?