

Adopt a system that makes learning part of the grade.

Homework without
compromise.
Results without
compare.

MasteringPhysics™ is the only online physics homework system with research showing that it significantly improves student learning and accurately predicts student performance on finals. A wide variety of published papers based on NSF-sponsored research and independent tests illustrate the benefits of MasteringPhysics™, including:

The MasteringPhysics™ homework grade has far less random testing error than a typical three-hour final examination. This is shown dramatically by dividing the MasteringPhysics™ problems into two groups then plotting each student's grades on the two halves (see right-hand plot). If there were no testing error, the plot would be a diagonal straight line with correlation coefficient (r) of 1.0. The MasteringPhysics™ plot has $r=0.96$. This is far superior to the same plot from a sample three-hour final exam (see left-hand plot), which has $r=0.64$. [CyberTutor (MasteringPhysics™), A Socratic, Web-based Homework Tutor, David Pritchard, Elna-Sofia Morze, David Kokerowski, MIT, USA, World Conference on E-Learning in Corp., Govt., Health & Higher Ed, Vol. 2002, Issue 1, 2002, pp. 2711-2712.]

MasteringPhysics™ more accurately assesses student understanding

